

1-1-1957

# Whitworth College Bulletin 1957-1959

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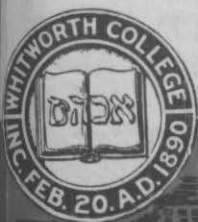
# whitworth college bulletin

Spokane, Washington

Announcements

1957-1959

67th-68th years



## DIRECTORY OF CORRESPONDENCE

Dr. Frank F. Warren, President, should be addressed on all correspondence relating to the following:

- a. General School Policy
- b. Instructional Staff
- c. Field Representation

Dr. Alvin B. Quall, Dean, should be addressed on all correspondence relating to the following:

- a. Educational Program of the College
- b. Guidance Program
- c. Summer School
- d. Work Toward Master's Degree

Mr. J. Paul Snyder, Business Manager; or Mr. Dayne Nix, Bursar, should be addressed on all correspondence relating to the following:

- a. Business Interest of the College
- b. Payment of Accounts
- c. Grants-in-Aid and Student Loans
- d. Living Endowments; Life Annuity Bonds
- e. Student Employment

Miss Estella E. Baldwin, Registrar, should be addressed on all correspondence relating to the following:

- a. Scholastic Requirements, Including Entrance, Classification and Graduation
- b. Evaluation of, and Request for Transcripts
- c. Scholastic Progress
- d. Certification and Placement of Teachers
- e. Foreign Student Information

Miss Marion R. Jenkins, Dean of Women, or Dr. R. Fenton Duvall, Dean of Men, should be addressed on all correspondence relating to the following:

- a. Room Reservations
- b. Permission to Live off-Campus Other Than with Parents
- c. Questions Relating to Men's or Women's Activities

Mr. Helmuth Bekowies, Director of Admissions, should be addressed on all correspondence relating to the following:

- a. Admission of Students
- b. General Informational Literature
- c. Scholarships
- d. Request for Catalogue

Mr. Raymond I. Brahams, Jr., Director of Public Relations, should be addressed on all correspondence relating to the following:

- a. Public Relations
- b. Publicity



Quadrangle Facing Cowles Auditorium

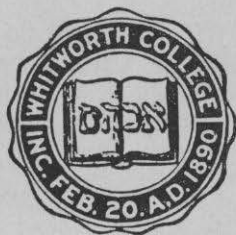




# WHITWORTH COLLEGE

## BULLETIN

Spokane, Washington



A COLLEGE OF  
LIBERAL ARTS AND SCIENCES

### Catalog Number

*Announcements for 1957-1959*

WHITWORTH COLLEGE BULLETIN

Vol. XXIV

JANUARY, 1957

No. 3

Entered as second class matter, August 5, 1930, at the Post Office, Spokane, Washington, under the act of August 12, 1912. Published seven times yearly by Whitworth College, Spokane, Washington.

# CALENDAR FOR 1957-1958

## SUMMER SCHOOL—1957

Registration .....	June 17
Class Instruction Begins .....	June 18
Fourth of July (holiday) .....	July 4
Final Examinations, first session .....	July 24-26
End of first session .....	July 26
Seminar session begins .....	July 22
Seminar session ends .....	August 23

1957						
JUNE						
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JULY						
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AUGUST						
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## FIRST SEMESTER

Faculty Retreat .....	September 13-14
Registration of new students .....	September 17-18
Orientation of new students .....	September 19-20
Registration of upper classmen .....	September 19-20
Faculty Reception, 8:00 p. m. ....	September 20
Class Instruction begins, 8:00 a. m. ....	September 23
Formal Convocation, 10:00 a. m. ....	September 23
Women's Conference .....	October 4-6
Latest date for discontinuing a course without F, unless work is satisfactory to date of withdrawal .....	October 11
Latest date to add a course without reduction of credit .....	October 11
Annual Homecoming .....	November 1-2
Mid-Semester Examinations .....	November 11-15
Thanksgiving Recess begins 12:00 noon .....	November 27
Thanksgiving Recess ends 8:00 a. m. ....	December 2
Christmas Vacation begins 6:30 p. m. ....	December 18
Christmas Vacation ends 8:00 a. m. ....	January 6
Final Examinations .....	January 27-31
Last day of First Semester .....	January 31

SEPTEMBER						
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DECEMBER						
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## SECOND SEMESTER

Registration of new students .....	February 3-4
Class Instruction begins 8:00 a. m. ....	February 5
Latest date for discontinuing a course without F, unless work is satisfactory to date of withdrawal .....	February 25
Latest date to add a course without reduction of credit .....	February 25
Mid-Semester Examinations .....	March 31 to April 3
Spring Vacation begins 6:30 p. m. ....	April 3
Easter .....	April 6
Spring Vacation ends 8:00 a. m. ....	April 14
May Festival (Mothers' Weekend) .....	May 9
Memorial Day (holiday) .....	May 30
Faculty-Senior Breakfast .....	May 31
Final Examinations .....	June 2-6
Alumni Banquet .....	June 7
Annual Meeting of Board of Trustees .....	June 8
Baccalaureate Sunday .....	June 8
Last Day of Second Semester .....	June 9
Commencement .....	June 9

1958						
JANUARY						
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JUNE						
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30	31					

## CALENDAR FOR 1958-1959

## SUMMER SCHOOL—1958

Registration .....	July 16
Class Instruction Begins .....	July 17
Fourth of July (holiday) .....	July 4
Final Examinations, first session .....	July 23-25
End of first session .....	July 25
Seminar session begins .....	July 21
Seminar session ends .....	August 22

## FIRST SEMESTER

Faculty Retreat .....	September 12-13
Registration of new students .....	September 16-17
Orientation of new students .....	September 18-19
Registration of upper classmen .....	September 18-19
Faculty Reception, 8:00 p. m. ....	September 19
Class Instruction begins, 8:00 a. m. ....	September 22
Formal Convocation, 10:00 a. m. ....	September 22
Latest date for discontinuing a course without F, unless work is satisfactory to date of withdrawal .....	October 10
Latest date to add a course without reduction of credit .....	October 10
Women's Conference .....	October 17-19
Annual Homecoming .....	November 14-15
Mid-Semester Examinations .....	November 17-21
Thanksgiving Recess begins 12:00 noon .....	November 26
Thanksgiving Recess ends 8:00 a. m. ....	December 1
Christmas Vacation begins 6:30 p. m. ....	December 17
Christmas Vacation ends 8:00 a. m. ....	January 5
Final Examinations .....	January 26-30
Last day of First Semester .....	January 30

## SECOND SEMESTER

Registration of new students .....	February 2-3
Class Instruction begins, 8:00 a. m. ....	February 4
Latest date for discontinuance of a course without F, unless work is satisfactory to date of withdrawal .....	February 24
Latest date to add a course without reduction of credit .....	February 24
Good Friday (holiday) .....	March 27
Easter .....	March 29
Mid-Semester Examinations .....	March 30 to April 3
Spring Vacation begins, 6:30 p. m. ....	April 3
Spring Vacation ends, 8:00 a. m. ....	April 13
May Festival (Mothers' Weekend) .....	May 8
Faculty-Senior Breakfast .....	May 30
Final Examinations .....	June 1-5
Alumni Banquet .....	June 6
Annual Meeting of Board of Trustees .....	June 6
Baccalaureate Sunday .....	June 7
Last Day of Second Semester .....	June 8
Commencement .....	June 8

1958

JULY						
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AUGUST

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SEPTEMBER

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OCTOBER

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NOVEMBER

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DECEMBER

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1959

JANUARY						
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FEBRUARY

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MARCH

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APRIL

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MAY

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JUNE

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## FACULTY

**FRANK FURNISS WARREN, M.A., D.D.**

President

B.A., Seattle Pacific College; M.A., Drew University; D.D., Seattle Pacific College; LL.D., Whitworth College; Teacher in the Osaka Theological Seminary, Osaka, Japan, 1925-1928. Dean of the School of Religion, Seattle Pacific, 1934-1940. Whitworth College, 1940—

**HOMER E. ALDER, Ph.D**

Professor of Biology

B.S., Fremont Normal College; B.A., Nebraska Wesleyan University; M.A., and Ph.D., University of Nebraska. Whitworth College, 1946—

**WILBUR L. ANDERS, B.M.**

Associate Professor of Music

B.M., B.M.Ed., St. Olaf College; special study under Dr. D. Arturo Bullock, Ellsworth Conservatory of Music; special study in voice under Frederick Haywood, Eastman School of Music; Graduate study, University of Montana. Whitworth College, 1947—

**ARTHUR LEON ARKSEY, B.A., M.A.**

Assistant Professor of English

B.A., Greenville College; M.A., University of Illinois; Graduate study, University of Washington. Whitworth College, 1954—

**ESTELLA E. BALDWIN, M.A.**

Professor of Bible, Registrar

B.A., M.A., Whitworth College; Bible Institute of Los Angeles; graduate study, New York Biblical Seminary, and University of Boston. Whitworth College, 1931—

**LESLIE R. BEACH, Ph.D.**

Assistant Professor of Psychology

B.A., Houghton College; M.Ed., Wayne University; Ph.D., University of Michigan. Whitworth College, 1957—

**HELMUTH BEKOWIES, B.A.**

Director of Admissions, Alumni Executive-Secretary

B.A., Whitworth College. Whitworth College, 1948—

**THOMAS W. BIBB, Ph.D.**

Professor of Economics and Business Administration

B.A., William Jewell College; M.A., Ph.D., University of Washington. Whitworth College, 1946—

**MARY BOPPELL, M.A.**

Associate Professor of Home Economics

B.S., M.A., University of Washington. Whitworth College, 1941—

**RAYMOND I. BRAHAMS, JR., M.A.**

Director of Public Relations

B.A., Maryville College; M.A., Colorado University. Whitworth College, 1956—

**JAMES R. BRATHOVDE, Ph.D.**

Associate Professor of Chemistry

B.A., Eastern Washington College of Education, Ph.D., University of Washington. Whitworth College, 1956—

**PATRICIA J. BRUCE, M.Ed.**

Assistant Professor of Physical Education

B.A., Wheaton College; M.Ed., Boston University. Whitworth College, 1955—



**JAMES C. CARLSEN, B.A.**

Assistant Professor of Music

B.A., Whitworth College; Graduate study, University of Washington.  
Whitworth College, 1954—**JOHN ARVID CARLSON, M.S.**

Professor of Mathematics and Engineering

B.S., M.S., University of Washington; Graduate study, University of Washington.  
Whitworth College, 1935—**ANNA JANE CARREL, M.M., A.A.G.O.**

Professor of Music

Mus. B., Oberlin Conservatory of Music; Mus. M., Cincinnati Conservatory of Music; student of Ernest Hutcheson and Sigismund Stojowski in New York City; B.A., Whitworth College; Graduate study towards Ph.D., Yale University, and Graduate study at Eastman School of Music.

Whitworth College, 1937—

**ROBERT L. CLEATH, M.A.**

Assistant Professor of Speech

B.A., Northwestern College; M.A., University of Oregon; Graduate study, University of Southern California, University of California at Los Angeles, University of Washington.

Whitworth College, 1956—

**DOROTHY F. CORONA, M.N.**

Assistant Professor of Nursing Education

B.S., Whitworth College; R.N. and M.N., Western Reserve University.

Whitworth College, 1954—

**HOMER F. CUNNINGHAM, Ph.D.**

Professor of History

B.A., Greenville College; M.A., University of Michigan; Ph.D., New York University.

Whitworth College, 1955—

**DAVID E. DILWORTH, Th.M.**

Assistant Professor of Bible

B.A., University of California at Los Angeles; Th.M., and additional study toward Th.D., San Francisco Theological Seminary.

Whitworth College, 1955—

**R. FENTON DUVALL, M.A., Litt.D.**

Associate Professor of History, Dean of Men

B.S., in Ed., Temple University; M.A., University of Pennsylvania; Litt.D., King's College, Delaware; Candidate for Ph.D., University of Pennsylvania.

Whitworth College, 1949—

**ERNESTINE EVANS, M.A.**

Associate Professor of Secretarial Science

Western Washington College of Education; B.A., M.A., Washington State College; Graduate study, Columbia University, New York Biblical Seminary.

Whitworth College, 1941—

**MARY FLOWERS, R.N., M.N.**

Assistant to the Director of the School of Nursing

B.S., B.A., Whitworth College; M.N., University of Washington.

Whitworth College and Deaconess Hospital, 1952—

**RHEA J. FRENCH, B.A.**

Librarian

B.A., Montana State University.

Whitworth College, 1943—

**ALFRED ORREN GRAY, M.A.**

Professor of Advertising and Journalism

B.A., M.A., University of Wisconsin; Graduate study, University of Wisconsin.

Whitworth College, 1946—



**NICOLIN P. GRAY, M.S.**

Assistant Professor of Chemistry

B.S., M.S., University of Washington; graduate study, University of Washington  
Whitworth College, 1944-1949, 1956—**INA LEORA HENEFER, B.A.**

Instructor in Biology, Assistant to Librarian

B.A., Whitworth College; Graduate study, University of Washington.  
Whitworth College, 1954—**EUGENE A. HENNING, Ph.D.**

Professor of French and Spanish

B.S., M.A., University of Missouri; Ph.D., University of New Mexico. Additional  
language studies at Columbia University, University of Puerto Rico, National Uni-  
versity of Mexico, University of Colorado, and Sorbonne, Paris.  
Whitworth College, 1951—**RUBY ARLETTA HERITAGE, B.S.**

Assistant Professor of Music

B.S., Columbia University; Graduate Fellowship Juilliard Graduate School, Ameri-  
can Conservatoire of Music, Fontainebleau, France; Special coaching with William  
Wade Hinshaw, Frank LaForge, Richard deYoung; Advanced study toward Mas-  
ters, Chicago Musical College.  
Whitworth College, 1946—**WAYNE HINTZ, B.A.**

Instructor in Physical Education, Basketball Coach

B.A., Whitworth College.  
Whitworth College, 1956—**MARION R. JENKINS, M.A.**

Professor of Bible and Christian Education, Dean of Women

B.A., Whitworth College; M.A., New York University; graduate San Jose Teach-  
er's College, California; Graduate study at University of California and New York  
Biblical Seminary.  
Whitworth College, 1931—**JASPER H. JOHNSON, M.Ed.**

Associate Professor of Education

B.A., M.Ed., University of Washington, Residence work completed for Doctorate.  
Whitworth College, 1953—**JOHN G. KOEHLER, M.A.**

Associate Professor of Art

B.A., M.A., University of Washington; Graduate study, Oregon State College.  
Whitworth College, 1945—**JOHN A. LA COSTE, Ed.D.**

Associate Professor of Education

B.A., Coe College; M.A., University of Iowa, Ed.D., University of Washington.  
Whitworth College, 1954—**ROBERT L. LAMOTT, M.A.**

Instructor in English

B.A., Iowa Wesleyan College; M.A., College of Puget Sound; Residence require-  
ments completed for Ph.D., University of Washington.  
Whitworth College, 1956—**J. RUSSELL LARSON, M.Ed.**

Associate Professor of Art

B.A., B.S., University of Washington, B.Ed., Whitworth College.  
Whitworth College, 1947—**JAMES LOUNSBERRY, M.S.**

Associate Professor of Physical Education, Athletic Director, Football Coach

B.A., Central Washington College of Education; M.S., University of Washington;  
Doctoral Candidate University of Washington.  
Whitworth College, 1952—

**PATRICIA A. MACDONALD, Ph.D.**

Associate Professor of Psychology

B.A., University of Washington; M.A., University of Rochester; Ph.D., University of Rochester.

Whitworth College, 1955—

**DIANA C. MARKS, B.A.**

Instructor in Physical Education

B.A., Wheaton College

Whitworth College, 1956—

**LEONARD B. MARTIN, M.Mus.**

Assistant Professor of Music

Westminster Choir College; B.Mus., M.Mus., University of Southern California;

Pupil of Arthur Alexander.

Whitworth College, 1949—

**CLYDE MATTERS, M.Ed.**

Associate Professor of Physical Education

B.S., M.Ed., Whitworth College.

Whitworth College, 1950—

**PAUL J. MERKEL, M.Ed.**

Assistant Professor of Physical Education

B.A., B.Ed., M.Ed., Whitworth College.

Whitworth College, 1954—

**MABEL M. POPE, B.A.**

Instructor in German

B.A., University of Nebraska; Graduate study at University of California, University of Colorado, University of Washington, Columbia University, and Madrid, Spain.

Whitworth College, 1955—

**ALICE QUALL, B.A.**

Instructor in Secretarial Science

B.A., Seattle Pacific College.

Whitworth College, 1953—

**ALVIN QUALL, M.A., Ed.D.**

Dean of College, Professor of Education and Psychology

B.A., Seattle Pacific College; M.A., University of Washington; Ed.D., Washington University.

Whitworth College, 1953—

**GUSTAV HERMAN SCHLAUCH, Ph.D.**

Professor of Sociology

B.A., Spokane University; M.A., Ph.D., University of Washington; Washington State College.

Whitworth College, 1942—

**CLARENCE J. SIMPSON, Ph.D.**

Professor of English

A.B., Asbury College; M.A., University of Cincinnati; Ph.D., Stanford University.

Whitworth College, 1953—

**EVELYN A. SMITH, M.R.E.**

Associate Professor of Bible and Christian Education

B.A., University of California; M.R.E., The Biblical Seminary in New York; Graduate work, University of California, Whitworth College.

Whitworth College, 1948—

**J. PAUL SNYDER, M.A.**

Business Manager

B.A., College of Puget Sound; M.A., University of Washington.

Whitworth College, 1951—

**ROBERT A. SPRAGUE, M.C.S.**

Associate Professor of Advertising

B.C.S., New York University; M.C.S., New York University.

Whitworth College, 1956—

**DUNCAN M. THOMSON, Ph.D.**

Associate Professor of Biology

B.S., University of Chicago; M.S., Northwestern University; Ph.D., University of California; Advanced research, University of Washington.  
Whitworth College, 1952—

**MILDRED C. THOMSON, M.B.A.**

Instructor in Secretarial Science

B.A., M.B.A., University of Chicago.  
Whitworth College, 1953—

**ESTELLA N. TIFFANY, M.A.**

Associate Professor of Education

B.A. in Education, Eastern Washington College of Education; M.A., University of Washington.

Whitworth College, 1949—

**LOYD BENSON WALTZ, M.A.**

Professor of Speech and Dramatics

B.A., Willamette University; M.A., University of Southern California.  
Whitworth College, 1944—

**MARY ELIZABETH WALTZ, B.A.**

Instructor in Music

B.A., Willamette University; Graduate study at the University of Oregon and Oregon State College.

Whitworth College, 1944—

**MAE WHITTEN, M.A.**

Associate Professor of English

B.A., Stanford University; M.A., Whitworth College; Graduate study at Stanford University, University of California, and University of Oregon.

Whitworth College, 1945—

**WILLIAM G. WILSON, M.S.**

Associate Professor of Physics and Engineering

B.S., M.S., University of Washington; Graduate study, University of Chicago, University of California, University of Washington, Eastern Washington College of Education; work towards Ph.D., Washington State College.

Whitworth College, 1946—

**FLORENCE E. WIMER, R.N., M.N.**

Director of School of Nursing and Nursing Service

B.S., Whitworth College; M.N., University of Washington.  
Whitworth College and Deaconess Hospital, 1955—

**LAWRENCE E. YATES, M.A.**

Associate Professor of Greek and Philosophy

B.A., McGill University; M.A., University of Toronto; B.D., Presbyterian College, Montreal, Canada. Graduate study, University of Saskatchewan. Residence work complete towards Th.D., Princeton Theological Seminary.

Whitworth College, 1948—

## FACULTY STANDING COMMITTEES

ADMINISTRATION: Warren, Quall, Duvall, Jenkins, La Coste, Schlauch, Snyder, Baldwin, Bekowies, Brahams.

ACADEMIC BOARD: Quall, LaCoste, Alder, Anders, Matters, Waltz, Baldwin.

ATHLETICS: Lounsberry, Hintz, Alder, Matters, Cunningham, Brahams, Quall.

CALENDAR: Evans, Baldwin, Waltz, Lounsberry, Brahams.

CHAPEL: Schlauch, Dilworth, Yates, Carrel, Anders.

DEAN'S CABINET: (Budget, Finance, and Curriculum) Quall, Alder, Anders, LaCoste, Matters, Waltz.

FACULTY AFFAIRS: Alder, Schlauch, Yates.

GRADUATE: Quall, Schlauch, Bibb, LaCoste, Cunningham, Baldwin.

LIBRARY: Simpson, Arksey, French, Henning.

NURSING: Corona, Alder, Quall, Brathovde, Thomson.

ORGANIZATIONS: Duvall, Dilworth, Whitten.

PERSONNEL AND GUIDANCE: Jenkins, Schlauch, MacDonald, Tiffany, Duvall, Baldwin, Quall.

PUBLIC RELATIONS: Brahams, Warren, Gray, Gunn, Martin, Bekowies.

RELIGIOUS LIFE: Dilworth, Bruce, Smith, Duvall, Carlson.

SCHOLARSHIPS: Quall, Duvall, Snyder, Baldwin, Anders, Jenkins, Bekowies.

SOCIAL FUNCTIONS: Evans, Bruce, Henning, Alice Quall.

STUDENT COUNCIL: Student Executive, Representative Student Council, Smith.

STUDENT LOAN: Snyder, Jenkins, Duvall, Nix.

## RESIDENT COUNSELORS

Mrs. Inez Coder.....	East Warren Hall
Mrs. Grace Carpenter.....	West Warren Hall
Miss Dorothy Adams.....	McMillan Hall
Mrs. Lillian McEachran.....	Ballard Hall
Mr. Ivan Phillips.....	Westminster Hall
Mr. Ron Soucy.....	Westminster Wing
Mr. Don Gum.....	Whitworth Hall
Mrs. Ina Henefer.....	Nason Hall
Mr. Ernie Wall.....	Washington Hall
Mr. Leon Arksey.....	Goodsell Hall
Mr. Boyd Weed.....	Lancaster Hall

## GENERAL INFORMATION

### HISTORY

WHITWORTH COLLEGE was founded in 1890 at Sumner, Washington. In 1900 the College was moved to Tacoma, Washington, where it continued until 1913. In that year the Spokane Presbytery of the Presbyterian Church invited the College to move to its present location, and the following year Whitworth was moved to Spokane, Washington. The College is named in honor of one of the outstanding pioneers of the Northwest, Dr. George Whitworth. Following the trail of Whitman, Spaulding, Meeker, and other pioneers, this Christian minister came to the far West to build churches and to become an outstanding leader in the early life of Washington.

Today, after sixty years of splendid achievement, Whitworth stands a Christian College dedicated to the great task of Christian education. It continues under the guidance of the Washington Synod of the Presbyterian Church and cooperates fully with the Board of Education of the denomination. For a long period of time it has succeeded in meeting the varied needs of discriminating young people of all denominations who wish to pursue their studies in a Christian atmosphere. Its scholarship is recognized by the larger institutions, and its graduates have consistently maintained high records of scholarship as they have pursued their higher education.

### PURPOSE

Whitworth College is primarily a co-educational college of arts and sciences. It seeks to provide a broad, liberal education in the light of which the student will obtain a clear, conscious view of his own opinions and judgments, an honesty in developing them, an eloquence in expressing them, and a force in urging them. Such an education encourages him to see things as they are, to go right to the point, to disentangle a skein of thought, and to discard what is irrelevant. Such training should enable him to do his best on any job or in any program of advanced study or training.

More explicitly, Whitworth College has the following objectives:

- Spiritual: To enable the individual to come into a vital relationship with God through Jesus Christ and to foster development of mature Christian character.
- Physical: To establish in the individual proper habits that will insure physical and mental health.
- Intellectual: To stimulate the individual to use his mind effectively and creatively in the definition, analysis, and solution of problems met in all areas of life.
- Economic: To provide competence in the various fields of learning that the individual might become economically efficient.
- Social: To cultivate in the individual an integrated personality that he might evaluate his environment wisely and learn to live harmoniously and productively with other people.
- Cultural: To acquaint the individual with, and develop appreciation for, the great ideas, the arts, the scientific advancements, and the social developments that are the cultural heritage of mankind.
- World responsibility: To instill in the individual a clear realization of his duty to become a contributing member, at a high level of competence, of his family, his community, his state, his nation, his world.

### DOCTRINAL STATEMENT

Whitworth College accedes to the historic faith of Protestantism and stands unequivocally for its fundamental principles. We believe the Scriptures of the Old and New Testaments to be the inspired Word of God and the only infallible rule of faith and practice. We believe in the sovereignty of God, in the deity of Jesus



Christ our only Savior and Lord, in His work of redemption on the cross, and in the Holy Spirit who dwells in every believer as the Spirit of Truth, of Holiness, and of Comfort.

### ACCREDITATION AND AFFILIATIONS

Whitworth College is fully accredited by the Northwest Association of Secondary and Higher Schools as a four-year liberal arts college with an unqualified membership in that Association. It is also a member of the Association of American Colleges, is on the approved list of the American Medical Association, and the National Council on Church-Related Colleges.

The College is also accredited by the State Board of Education for giving complete training for public school certification in the State of Washington. For a long period of time it has done outstanding work in training teachers for the public schools. Its graduates have been successful in obtaining teaching positions.

### PHYSICAL PLANT

The main buildings of the campus consist of: the Cowles Memorial Auditorium, Education Building, McEachran Hall, Hardwick Student Union Building, Harriet Cheney Cowles Memorial Library, Science Hall, the Fine Arts Building, Grieve Hall, Jay P. Graves Hall, Home Economics Building, Dining Hall, the Edinger Memorial Chapel, McMillan Hall, Westminster Hall, Whitworth Hall, Washington Hall, Goodsell Hall, Lancaster Hall, Nason Hall, Ballard Hall and Warren Hall.

**Administrative Offices** are located in McEachran Hall.

**Auditorium:** The Cowles Memorial Auditorium, which was completed in the early part of 1956, was a gift from the Cowles family. It is a brick structure of modern design. It contains an auditorium which seats 1250 persons and has a large stage for the presentation of music and dramatic productions. This building also houses a little theater area under the stage, speech classrooms on the west side, and an auxiliary classroom and faculty room on the east side. A public relations office and speech offices are also provided.

**Education Building:** A new Education Building was completed in the fall of 1956. This building contains 18 classrooms which are used by the various divisions of the college and also contains individual offices for nine faculty members. The building is of brick and completely fireproof.

**Student Union Building:** The Hardwick Memorial Student Union Building was completed in the summer of 1957. This building contains a snack bar and rooms situated adjacent to it that can accommodate gatherings up to seventy-five in number. It also provides a large room for social events, game room, lounge, music room with TV and record player, book store, post office, locker rooms, five guest rooms, and offices for student publications and for major officers of the Associated Students.

**Library:** The Harriet Cheney Cowles Memorial Library completed during the summer of 1948 was a gift from the Cowles family. It is a beautiful brick structure with study quarters which accommodate the needs of the entire student body and the housing of 100,000 books. An auditorium which seats 250 people for lectures is located on the basement floor. Other rooms for visual education, journalism, debate, seminar courses, music listening room, offices, typing room, and study carrels for graduate students complete the facilities.

**Housing:** Nine dormitory buildings provide housing for the students. Ballard, McMillan and Warren Halls provide housing for 288 women.

Whitworth, Westminster, Washington, Goodsell, Lancaster and Nason Halls provide housing for 224 men. On the east side of the campus married students and faculty members occupy twenty-two apartments known as College Homes. Other living quarters for faculty members and families are also provided.

**Athletic Plant:** A large gymnasium known as Jay P. Graves Hall is the center of the athletic program of the campus. A natural amphitheater with its view of hills provides a turfed athletic field of unique beauty. This field also offers a quarter mile track and other track facilities. A turfed 3-acre baseball field provides for that sport and others. Five cement and asphalt tennis courts and practice backboard are provided. The archery range is just south of the gymnasium. Space for badminton, table tennis, shuffleboard and other sports is available.



**Music:** The Fine Arts Building is the center of the music department. The first floor has three large classrooms and a number of practice rooms. The second floor contains one large recital room, offices, and studios for the members of the department.

**Home Economics:** The Home Economics Building contains a large foods laboratory and storage room. A modern, all electric kitchen is located on the first floor. Certain classes which have outgrown this building are conducted in Grieve Hall. In addition, the Home Management Cottage makes it possible for students to gain practical experience.

**Science:** The Science Hall houses the departments of biology, chemistry and physics. Science Hall is a brick structure with two floors, making ample space for a lecture room, laboratories, store rooms, and offices for the departments of biology and chemistry.

**The Dining Hall:** The Dining Hall is a solid brick structure and will accommodate 300 students at a sitting. Meals are served family style evenings and cafeteria style mornings and at noon.

**Heating Plant:** This building provides steam heat for most of the buildings on the campus.

**The Health Service Center** is located in the central portion of Grieve Hall. It consists of (1) Nursing Arts Laboratory and Nursing Office, and (2) the Infirmary with Waiting Room, Dispensary, and both single rooms and wards for the care of students during illness.

**Chapel:** Chapel services are held in the Cowles Memorial Auditorium. A small prayer chapel, Edinger Memorial Chapel, erected by the Philadelphians, accommodates forty students and is used for small religious group meetings and for private devotions.

## RESOURCES

The annual report shows that the College has buildings, equipment and grounds valued at \$2,745,930. The operating budget for the academic year is more than \$850,000. Tuition and fees account for approximately 66⅓ per cent of this amount. The rest comes through support of the Presbyterian Church, gifts from friends and alumni, and endowment. The living endowment plan plays an important part in meeting the current expenses of the College. Information regarding this may be obtained from the Business Manager's office upon request.

## LOCATION

Whitworth College is located just north of the city limits of Spokane in the Country Homes Community. At an elevation of 2000 feet, the campus of 150 acres occupies a site of natural beauty. Forty acres of the area constitute the central campus on which are located its many buildings and athletic facilities.

## TRANSPORTATION

A regular bus schedule is maintained between downtown Spokane and Whitworth College. The bus leaves the Spokane depot (Coeur d'Alene Hotel) on the corner of Trent and Howard. This provides a safe and insured method of transportation for students living either on the campus or in the city. Students who find transportation in private cars are taking avoidable risks, for which the College assumes no responsibility. The College strongly recommends that students living on the campus do not bring automobiles.

## PLACEMENT SERVICE

A Placement Bureau is maintained to aid graduates of Whitworth College who seek teaching positions. The only charge made for this service is \$2.50 per each year the member wishes his credentials brought up to date and made available for use.

## EDUCATIONAL ORGANIZATION

### REGULAR COLLEGE YEAR

The regular school year opens in early September and closes not later than June 15. The school year is divided into two semesters of approximately eighteen weeks each. Two vacations, one at Christmas and one in the spring, break the sessions.

Generally a student should plan to take four consecutive years to complete his education. The curriculum is planned with this in mind and deviation from this plan often results in weakening the education of the student.

### SUMMER SCHOOL

The summer session extends over a period of six to ten weeks during the months of June and August. It is designed to meet the needs of the following groups:

1. Those wishing to accelerate their program in order to complete a college course in less than the customary four years.
2. Regular college students wishing to remove deficiencies.
3. High school graduates who wish to begin their college work at once.
4. Veterans who are under the "G. I. Bill of Rights" or other federal aid programs for servicemen.
5. Public school teachers who wish to improve themselves professionally.
6. College graduates and others who are desirous of further education.
7. In some departments the work is especially arranged for those who are working for advanced degrees.
8. Those who wish to enter the field of nursing.

A summer bulletin is prepared and will be sent to anyone upon request.

### GRADUATE SCHOOL

Whitworth College offers graduate professional work in education leading to the degree, Master of Education. Students who hold a Bachelor's Degree from Whitworth College, or another accredited college or University, and have had the required undergraduate work in education, may become candidates upon application to the Committee on Graduate Work.

### CURRICULUM

The instructional departments of Whitworth College are arranged within five divisions as follows:

- I. Division of Fine Arts
  - Art
  - Music
- II. Division of Health and Physical Education
  - Physical Education
  - Recreational Leadership
- III. Division of Letters
 

Advertising	Library Science	Religion (including Bible and
English	Modern Language	Christian Education)
Greek	Philosophy	Speech and Drama
Journalism		
- IV. Division of the Sciences
 

Biology	Home Economics	Physics
Chemistry	Mathematics	Pre-Medical Studies
Engineering	Nursing	
- V. Division of Social Sciences
 

Business Administration	History	Secretarial Science
Economics	Political Science	Sociology
Education	Psychology	

## FINANCIAL INFORMATION

The college year is divided into two academic semesters and summer school. All bills are payable in advance at the beginning of each semester. A student is not considered registered and cannot be allowed to attend classes until satisfactory financial arrangements have been made with the Business Manager.

225

All junior and senior students in the teacher-training program will be charged a \$5.00 professional fee. This fee is payable the first semester of each year only.

Validating Examinations will cost the student seventy-five cents per credit hour validated. However, no examination will be administered for less than one dollar regardless of the number of hours for which credit is asked.

For individual students the cost of books, stationery, laundry, private music lessons and incidental expenses will vary according to the program and inclinations of the student.

#### NIGHT SCHOOL

Night School classes conducted off-campus per credit hour .....	\$10.00
Matriculation Fee (all students not previously enrolled at Whitworth College) .....	\$5.00
Regular college rebate policy applies to all night school enrollments.	

#### CADET TEACHING

Cadet Teaching Service Fee, 6 semester hours.....	\$12.50
8 semester hours.....	16.65
12 semester hours.....	25.00
14 semester hours.....	29.25

All fees subject to change without notice.

#### STUDENT ASSOCIATION FEE

The Student Association Fee is charged to all students who register for nine hours or more in any department of the College. The fee is payable in full at the time of registration. The proceeds are used for the support of student publications (Natsihi and Whitworthian), forensics, dramatics, athletic program, and A.S.W.C. social functions, and admittance to all home games free of charge.

#### CONDITIONS GOVERNING THE EXTENSION OF FINANCIAL CREDIT

All student fees, tuition, board and room are due and payable at the beginning of each semester.

For the convenience of those who desire to make time payments, the college has made arrangements with a company to finance these contracts.

For those using this method, a cash down payment of not less than one-third of the amount due must be made. The balance due will then be included in a contract signed by the student if he is 21 or over, or by the parent or guardian for those under 21. This contract will then be turned over to the company and the remaining payments must be made to them. There is a flat fee of 4% charged by the company for this service.

Transcripts of grades and diplomas will not be issued until all college accounts are paid. The College must insist upon the satisfactory adjustment of financial obligations before any grades will be recorded.

#### REFUNDS

1. TUITION, including private instructions in music, speech and art.  
In case of withdrawal tuition will be refunded as follows:  
Withdrawal before the end of the second week, 85% of the tuition will be refunded.  
Withdrawal before the end of the fourth week, 70% of the tuition will be refunded.  
Withdrawal before the end of the ninth week, 40% of the tuition will be refunded.  
No refunds will be granted after the end of the ninth week.
2. BOARD AND ROOM. In case a student withdraws or moves off campus and secures board and room elsewhere, the charge for board will be refunded on a pro-rated basis. There will be no refund for room rent. Refund for board will not be made for an absence of less than one week.
3. FEES will not be refunded for either partial or complete withdrawal.
4. DORMITORY BREAKAGE FEE deposit is refundable if no breakage occurs or if withdrawal is before August 1.

ALL REFUNDS MUST BE DULY CLAIMED BY APPLICATION TO THE BUSINESS OFFICE, THE DATE OF WHICH DETERMINES THE REFUND PERIOD.

## BOOK STORE

A book store is maintained for the convenience of the students. All purchases of books and supplies are on a cash basis. No credit can be extended.

## SELF SUPPORT

Whitworth College makes every possible effort to assist young people in obtaining an education. Practically all of the work in caring for the grounds, buildings, and secretarial work is done by the students who must obtain some work in order to help with expenses. Opportunities for work in town occur chiefly in domestic and office assistance, personal service of various kinds, canvassing, manual labor, etc. Students who find it necessary to work during the regular college year will be expected to reduce their academic load.

Laboratory Assistantships are available to students majoring in biology, chemistry and physics. Personality, scholarship, technical skill, and financial need will be considered in awarding these assistantships.

Applications for on-campus work are handled through the Business Office. Applications for off-campus employment are handled through the Dean of Men's office.

## VETERANS' TRAINING

Whitworth College is approved to provide training under Public Law 346, Public Law 16, Public Law 894, and Public Law 550 in cooperation with the Veterans' Administration. In general, Public Law 346 provides that the qualified veteran may attend college for a period of one year plus the length of his service, not to exceed 48 months, with tuition, books and other ordinary educational expenses paid by the government, and in addition he may receive \$75 per month if no dependents, \$105 per month with one dependent and \$120 per month if more than one dependent.

Minimum subsistence and pension compensation allowances for those training under Public Law 16 range from \$105 to \$115 per month, depending on the degree of disability and number of dependents. Up to date details can be obtained from any regional or field Veterans Administration office. Public Law 894 is a continuation for Korean Veterans of the provisions of Public Law 16 for World War II Veterans. Public Law 550 grants 1½ days of education for each day of active service since June 27, 1950, when other requirements are met. The Veteran taking at least 14 semester hours will receive \$110 if single, \$135 with one dependent, and \$160 with more than one dependent. From this allowance he pays for his own tuition, fees, books, and other expenses.

## SCHOLARSHIPS

A limited number of honor scholarships are awarded each year to entering freshmen on the basis of scholarship and promise of leadership.

Twenty freshman scholarships of \$250 are given to graduates of high schools of the northwest who are in the upper 10% of their classes. These scholarships are continuous through the sophomore year, provided that the student maintains a 3.25 average.

A limited number of junior and senior scholarships are available to students who have a cumulative G.P.A. of 3.25. Such scholarships must be applied for each year.

Some scholarships are available in the department of music, art, speech, and athletics. These scholarships depend upon proficiency in the activity involved but in no case will be given to a student whose scholarship record will not allow a clear record of admittance to the college. In general music, art, and speech scholarships apply toward private lessons.

Work scholarships for senior or fifth-year men each totaling \$200 per school year, are available through the Spokane Y.M.C.A.-Whitworth College leadership training program.

In addition to the scholarships that we offer, students may receive similar aid from the church and other organizations.



Before students are given scholarships they must sign the scholarship pledge. Students interested in these scholarships should correspond with the Director of Admissions, Whitworth College.

The Scholarship Committee meets on March 15, April 15, and May 15 to consider applications for the following school year.

Other special scholarships are:

1. The Alaskan scholarship of \$60.00 given to a student who is a member of the Presbyterian Church.
2. The Nellie Shepherd Millard scholarship of \$60.00, appointment made by Mrs. Elton F. Spicer.
3. The First Presbyterian Scholarship Fund (Seattle, Washington).
4. The Esther Weitzman Scholarship, (interest on \$4000) is available annually as a part time tuition scholarship for any worthy student, regardless of race or color, who wishes to come to Whitworth College.
5. R. S. Stevenson Scholarship of \$350.00.
6. Grace A. Stayt Memorial Scholarship Fund (interest on \$6000.00) available annually to a worthy student.
7. Westminster Shorter Catechism College Scholarships of \$100.00. Available to two college freshmen or upperclassmen enrolled for the first time at Whitworth College. They must know perfectly the 107 answers of Catechism. Write for details.
8. Alumni Scholarships: Several Scholarships are available through the Alumni Association. These range from \$100-\$400.
9. Ethel Fairfield White Scholarship Fund (from six to ten tuition scholarships) available annually to worthy students who need financial assistance.

#### LOAN FUNDS

Hedley A. Vicker Fund .....	\$ 1560.44
General Scholarship Fund .....	600.00
Stevens-Swanby Scholarship Fund .....	449.39
Sarah A. Stewart Fund .....	275.00
George N. Beard Fund .....	70.00
Dr. L. N. Williams Loan Fund .....	2246.11
Elizabeth Hewitt Loan Fund .....	500.00
The Shadle Loan Fund .....	15000.00
David and Emma Thorndike Memorial Loan Fund .....	2000.00
Otis and Elizabeth Merritt Loan Fund (for a Senior only) .....	100.00
Mr. and Mrs. Franklin Armstrong Loan Fund .....	600.00
I. W. Thomsen Loan Fund .....	1000.00
Frances Gilbert Hamblen Memorial Loan Fund .....	2000.00
Jane Bognalt O'Brien Nurses' Loan Fund .....	1000.00
Dave Barnes Memorial Loan Fund .....	730.00

#### GRANTS-IN-AID

##### 1. For Members of Ministers' Families.

a. A grant-in-aid on tuition of 25% per semester is available for dependent sons and daughters of ordained Christian ministers. This grant-in-aid is continuous after first semester only on condition that an average scholarship grade of at least C shall have been earned in the preceding semester. It is also understood that the scholarship will be continued on the basis of full cooperation by the students in the program of the College. This aid is granted if formally requested in writing by the parent. It does not apply for graduate students.

b. Dependent sons and daughters of ministers active in the Presbyterian Synod of Washington will receive a 50% discount in tuition charges.

##### 2. For Upper-Division Students Occupying Churches.

Aid is also given students who are regularly engaged in supplying churches. The same conditions apply here as those outlined above. It does not apply for graduate students.

##### 3. Dependent Sons and Daughters of faculty and staff members receive tuition.

It does not apply to graduate work.

#### TRANSCRIPTS

No transcript of credits shall be granted to any student and no degree shall be conferred until all fees, dues, and other college obligations have been adjusted in the office of the Business Manager of the College.



## REQUIREMENTS FOR ADMISSION

### BEGINNING FRESHMEN

1. Complete official application form and send to the Director of Admissions.
2. Submit official transcript of high school record together with statement of graduation. (Tentative acceptance can be made after seven semesters of high school work.)
3. Complete at least 16 acceptable units of high school study (or 15 units exclusive of activity credit in physical education) with minimum grade point average of 2.0 in academic subjects (C) and recommendations indicating ability to do successful college work.
4. Include in the above 16 units at least 3 units of English and 6 additional units of academic subjects (English, mathematics, foreign language, social science, physical or natural science).
5. Applicants not clearly satisfying the above requirements may (upon recommendations of the Admissions Committee) be permitted to take entrance examinations which, if completed satisfactorily, will allow the applicant probationary or provisional admission for one semester. After the completion of one semester's work, the student's work will be reviewed by the Academic Board, and his continuance will be subject to the action of the Academic Board.
6. Applicants age 21 or over who have not graduated from high school, may, upon recommendation of the Admissions Committee, be permitted to take entrance examinations which, if completed satisfactorily, will allow probationary admission.

### ADVANCED UNDERGRADUATE STUDENTS

1. Complete official application form and send to the Director of Admissions.
2. Submit official transcript record of all college and university work completed or begun, together with a statement of honorable dismissal from the school last attended.
3. Maintain a cumulative grade point average of 2.0 ( $A=4.0$ ) in all college work as well as the last semester or quarter of study.
4. Evaluation of transferred credits:
  - a. Students who have taken three years of college prior to entering Whitworth may not apply for more than 96 semester hours toward graduation. The last year's work must be taken in residence at Whitworth College.
  - b. Credits transferred from institutions accredited for less than four years will not be accepted in excess of the accreditation of the individual institution concerned. Example: students transferring from a regular junior college may not transfer more than a total of 60 semester hours of college credit.
  - c. Students who present credits earned in unaccredited schools offering specialized instruction are permitted to appeal to the Academic Board for the evaluation of such credits. Advanced credit will be granted only after the student has been in attendance at Whitworth at least one semester and has presented a request for evaluation to the Academic Board which will be followed by an examination given by the department in which credit is being sought. An examination fee of seventy-five cents per semester hour to be validated will be charged. No examination will be given for less than \$1.00.

### GRADUATE STUDENTS

1. Complete official Graduate Admissions Application and send to the Dean of the Graduate School.
2. Submit official transcript record of all college and university work completed or begun together with a statement of honorable dismissal from the last school attended. These records will not be returned to the student.

\*Read carefully the provisions listed under Master's Degree.

### PHYSICAL EXAMINATION

The college requires each entering student to file a physical examination form in the college office prior to registration. This form may be secured from the Director of Admissions and is to be filled out by the student and his physician.

### ORIENTATION DAYS

Freshman days are the four days immediately preceding the beginning of class instruction for the fall semester. This program is directed by the College Administration and the A. S. W. C. Students will find an opportunity to meet other students and become familiar with the campus, traditions, college personnel, etc. Attendance is required.

All Freshmen take examinations at the time of entrance as an aid to subsequent guidance. These examinations include a general psychological test as an index of the student's aptitude for college work, and an English test as a basis for assignment to sections in the course in English Composition. In some cases certain departmental tests may be given for guidance purposes.

A fee of \$2.00 is charged for late registration. Students may not be admitted to the college after the third week of the term except by special arrangements with the Dean of the College.

## ORGANIZED ACTIVITIES

### STUDENT ORGANIZATIONS

The extra-curricular activities at Whitworth College are maintained for the purpose of giving the student opportunity for development of personality and leadership. These activities are considered important in the education of youth. Each student, therefore, is expected to become an active member of at least two organizations. It is advisable for the student to restrict his activities to not more than four organizations. It is suggested that new students do not join clubs or organizations until the beginning of the third week of the semester.

In order to be recognized as a Whitworth College organization a group must have its constitution approved by the student executive board and the faculty. All constitutional amendments and by-laws of the organization must also receive the sanction of the student executive board and the faculty. No organization shall function or be recognized until official notice of approval has been given to the applying organization by the faculty. Each student organization must have a faculty adviser with whom it counsels as to the programs and policies. The adviser is held responsible for reports on the character of the work of the organization and also the individual membership.

### ASSOCIATED STUDENTS OF WHITWORTH COLLEGE

The Students' Association is the general organization of the student body. Voting members are those who have paid all their fees for the semester and are regularly enrolled. Membership entitles the student to a subscription to "The Whitworthian," admission to games played on the home grounds, a voice in the regulation and promotion of the student association activities, and a copy of the "Natsihi" at the student's price. The president and vice-president of this association are chosen annually from the two upper classes of the college. The secretary and treasurer must have attained sophomore standing. A fifth executive is chosen by the Council.

The Student Council is the ruling organization of the Student Body. Its membership consists of the Student Executive officers, eleven representatives for the campus students (one from each college-supervised living group, and representatives of off-campus students); the ratio of representation to constituency shall be equal for both campus and off-campus students.

The Student Executive, elective officers of A. S. W. C. and one elective member from the Student Council, represents the student body in conferences with the faculty and administration.

A Student Court handles disciplinary problems among students and is the final authority on the interpretation of the Constitution of the A. S. W. C. It is made up of six judges, two prosecuting attorneys and two court recorders.

These organizations implement the ideal of democracy which exists at Whitworth College.

### GENERAL STUDENT ORGANIZATIONS

**Alpha Kappa Chi** is Whitworth's official club for off-campus students. It exists to promote good fellowship among its members through various activities of the group.

**A. M. S. The Associated Men Students.** An organization to promote the interest and welfare of all men enrolled in the college.

**A. W. S. The Associated Women Students.** An organization of all women students to promote the interests and integrate the programs sponsored by the women of the campus.

**Sefelo** is the organization of the women students living in the women's dormitories. Life in the halls and much of the social life of the group is governed by this organization.

**The Cosmopolitan Club** is an organization for students from other countries, the purpose being to further the understanding and appreciation of other races and to provide an opportunity for lasting friendships in Christ with those of other cultural backgrounds.

### DEPARTMENTAL ORGANIZATIONS

**Alpha Beta**, "The Best in Life," is a home economics group offering to Whitworth College women opportunities to promote the best ideals of the home. The art and science of living in its cultural and social aspects are emphasized.

**Chi Epsilon** is an organization of students interested in the field of Christian Education, both as professional and as volunteer workers. It has a program of information and activity related to that field.

**The Engineers Club** encourages fellowship among the engineering students and sponsors field trips, technical motion pictures, professional speakers and discussion programs to encourage their personal and professional growth.

**The Future Teachers of America.** This is a chapter of the National Future Teachers of America. Its purpose is to "promote and further interest in the teaching profession, and to develop spirit on the part of college students preparing for this profession." Membership in this organization includes junior membership in the Washington Educational Association and the National Education Association. Membership is open to all students interested in entering the teaching profession.

**The Pep Band** contributes to the life of the college by providing music for games and for many other functions.

**The Pre-Med Club** gives those interested in the medical professions an opportunity to investigate and answer problems peculiar to their group. Besides the usual meetings, the club sponsors trips and lectures, and keeps an organized file of professional school requirements, scholarships, and other pertinent information.

**Ski Club.** A group of students organized to promote winter sports on the campus and to provide means during the winter months for trips to the Mt. Spokane skiing area for skiing enthusiasts.

**The "W" Club** is made up of varsity award winners in inter-collegiate athletics. Its chief interests concern the promotion of athletics and recreational activities of the college.

**The Whitworth Business Club** is composed of majors and minors in the Department of Economics, Business Administration and Secretarial Science, under advisement of the head of the Department. The basic purpose is to develop a relationship between business students at Whitworth and the economic world, and to keep informed on current business and economic affairs.

**The Women's Recreation Association** is an organization of women who are interested in sports and recreational activities. A member of the association may receive a block letter, a sweater, and a school blanket after earning a determined number of points.

To stimulate further interest in sports activities, W.R.A. sponsors varsity teams in tennis and basketball. In addition this organization promotes an intramural program in basketball, softball, volleyball, and archery.

The main social events consist of a Gypsy Feed in the fall, a waffle breakfast during the winter and an overnight retreat in the spring.

**The Writers Club**, which meets monthly, is an informal group of those interested in creative writing.

## HONORARY STUDENT ORGANIZATIONS

**Alpha Psi Omega** is the first national fraternity on the campus as well as the first cast of Alpha Psi Omega in the State of Washington. Its membership is made up of the students who have the distinction of becoming members of the Theta Rho cast of Alpha Psi Omega, National Dramatic Honorary Fraternity.

**Intercollegiate Knights** is made up of men on the campus who have been of outstanding service. This is a chapter of the national Intercollegiate Knights organization.

The **Pirette Club** is made up of women students of the Sophomore, Junior and Senior classes, who have high scholarship and have made outstanding contributions to the extra-curricular program of the college. They are selected for membership by the Student Council.

**Phi Alpha** is the honorary scholastic organization of the college. Seniors who have attended Whitworth College for one year and have maintained a 3.5 G.P.A. may be elected to active membership, while juniors may be elected to associate membership.

**Beta Beta Beta** is a national biological honorary organization for biology students who have maintained in their first four semesters of work, a cumulative grade average of 2.7 in addition to a 3.0 average in the biological sciences. The local chapter is Epsilon Kappa. Its purpose is to stimulate sound scholarship, to promote the dissemination of scientific truth, and to encourage investigation in the life sciences.

**Pi Kappa Delta** is a national forensic honor society for those who participate in intercollegiate forensic activities.

## RELIGIOUS LIFE

**Chapel** is held three times a week and is a required service. Worship is emphasized as an important part of the service. While the exercises are usually devotional, the chapel hour is also employed to bring before the student body the best speakers that can be procured on missions, sociology, evangelism, and kindred topics. Because of our proximity to the city of Spokane, the students have the privilege of hearing a number of distinguished speakers during the year.

**Church Services.** Sunday Church School and morning worship services are held each Sunday in the Whitworth Community Presbyterian Church which immediately adjoins the campus. Many students and faculty members join there in worship with people of the surrounding community. Churches of all denominations in the city offer opportunities for worship and service to our students. At 7:15 each Sunday evening there is an all-college Vesper service on the campus at which time leaders of churches throughout the entire Northwest are invited as speakers.

**Men's and Women's Conferences.** Two outstanding annual events are the men's and women's week-end religious conferences, planned by student committees. These conferences, led by well-known Christian leaders, have become important milestones in the lives of many students.

**Philadelphians.** The young men who are preparing for Church vocations are organized as Philadelphians, holding regular meetings to hear ministers of different denominations and to discuss the problems and opportunities in the ministry and related fields of service.

**Spiritual Emphasis Week and Spiritual Advance Days.** Special days are set aside in the fall and spring semesters for an emphasis upon the spiritual life and Christian service. These events are sponsored and planned by the Westminster Christian Fellowship and the administration of the college. A prominent Christian minister or missionary is brought to the campus at such times for a series of messages and personal counseling with the students.

**Whitworth Christian Fellowship.** The Christian activities of the campus are centered in the Whitworth Christian Fellowship. It is organized and functions according to the pattern of the Westminster Fellowship of the Presbyterian Church. The commissioners and other officers are elected by the students and serve as directors and coordinators of the religious life of the campus. This includes conducting all-school vesper services on Wednesday and Sunday evenings, organizing Bible study and prayer groups, supplying gospel teams and volunteer workers for nearby churches, and promoting Spiritual Advance days and Spiritual Emphasis week.



## EXTRA CLASS ACTIVITIES

Many opportunities are given to Whitworth students both to participate in and to enjoy activities apart from academic work. These have proved very valuable to students in their all-around development. Whitworth encourages each student to develop interests in some forms of activity.

**College Publications.** Student publications are under the direction of the Associated Students of Whitworth College through the publications council.

The Whitworthian, the organ of the student body, is published weekly. Any student is eligible to serve on the staff.

The Natsihi, devoted to recording the major activities, classes, clubs, etc. of general college interest, is the annual publication of the Student Body.

**Dramatics.** Under the supervision of the department of speech and drama, several full-evening programs of plays are presented each year. Each student, whether enrolled in any speech course or not, is given opportunity to try out and participate. Whitworth has a chapter of Alpha Psi Omega, a national dramatic honorary fraternity on the campus. Membership comes through active participation in college productions.

**Physical Education and Athletics.** The Whitworth program affords opportunity for the student to increase or develop his interests and abilities in physical education as a career or as an avocation.

The general program includes experience for men, both intercollegiate and intramural, in football, basketball, baseball, track, tennis and golf.

Whitworth college is a member of the Evergreen Conference offering to men intercollegiate competition in six different sports.

Women engage in basketball, softball, tennis, archery, volleyball, swimming, badminton, and rhythmic activities.

Physical education is required of all freshmen and sophomore students. Many courses are given in the physical education department as elective for any student.

**Music.** The general program of the music department provides experience in such organizations as chorus, a cappella choir, band, orchestra as well as small instrumental and vocal ensembles. Opportunity for travel, as well as participation in broadcasts over major radio stations of the Northwest, is afforded these organizations.

**Forensics.** General activities in this field, in order to obtain experience in intercollegiate competition, include debate, extempore speaking and oratory. These activities are under the direction of the department of speech but not limited to those in the department.

## ADMINISTRATIVE POLICIES

### DORMITORY REQUIREMENTS

Single students not living in their own homes are required to live in the college dormitories unless they obtain permission of the committee on personnel. Application for such permission must be made on forms secured from the Dean of Men or the Dean of Women.

Off-campus students may live only in approved residences which must be properly supervised. In no case will men and women students be permitted to live in the same building.

Students working off-campus for board and room must also have the consent of the Dean of Men or the Dean of Women.

Students living in the dormitories are expected to carry a minimum load of twelve hours.

Each dormitory student is expected to supply himself with the following: towels, linen and bedding for single beds, curtains (draperies will be furnished in Warren Hall), rugs, and a reading lamp.

Each student is expected to care for his own personal laundry and linen. Limited laundry facilities are provided at the college, and an inexpensive service for flat work is available through local laundries. All linen and clothing should be plainly marked with name tapes.

The use of irons or hot plates is not permitted in dormitory rooms. Provision is made for the use of these appliances in special rooms. The use of inflammable cleaning materials is prohibited in all college buildings because of the fire hazard.

Bedding should be sent several days in advance, by parcel post, addressed to the owner, at Whitworth College. The college cannot supply students with bedding.

Overnight guests in the dormitories are to be entertained only on weekends and permission is to be secured from the resident counselor. Hosts are responsible for payment for their guest's meals, for which arrangements must be made with the Dining Room Hostess.

The college dining room will be open for new students Monday afternoon before Orientation Days and closed after luncheon on Commencement Day. The dormitories and dining hall will be closed throughout the Christmas and Spring vacations. If students must remain in residence, special arrangements will have to be made with the Administration as the charges made for room and board do not cover these vacations.

Freshman women desiring to stay overnight off the campus are required to have written permission from parents for each occasion.

Because of the hazards of automobile travel, the College does not grant leave for women students under twenty-one years of age to travel by car beyond the boundaries of Washington and Northern Idaho, except upon receipt of written permission of parent or guardian.

## DISCIPLINE

The Administration of Whitworth College reserves the right to exclude at any time students whose conduct or academic standing it regards as undesirable. Neither the college nor any of its officers shall be under any liability whatsoever for such exclusion.

The Dean of the College may at any time dismiss a student from a course if in his judgment the student has neglected the work of that course. It is understood also that students may be relieved of campus responsibilities if at any time they fail to discharge their duties.

Students are expected to inform the Registrar upon withdrawal from school. Unless this is done, the student will lose his privileges of registration and forfeit his right to a clear transcript of credits and honorable dismissal.

## HEALTH SERVICE

A Student Health Service is provided by the College for the protection of the well and the care of the sick. This service is under the direction of the School Physician and the Director of Nursing Education, and registered nurses. An Infirmary with facilities for the care of men and of women is maintained. Any student is entitled to four days care in the Infirmary each semester. In excess of this time a fee of \$1.00 will be charged per day. Students who are not paying room and board at the college may receive care in the Infirmary if so advised by the Infirmary Staff at the rate of \$2.00 per day plus meals. Special medicine and prescriptions are furnished at cost.

The Health Service does not offer treatment for major illnesses. Chronic illnesses of a serious nature, or illness involving surgery or hospitalization can be taken care of in the hospitals of Spokane at the student's own expense. The College reserves the right to send any student to a specialist or to a hospital for care, when the Health Service Staff deems it necessary.



Accident insurance amounting to a maximum of \$500 medical expenses and \$1,000 death benefit is furnished each student while taking part in any organized school activities in his own school or while traveling with organized school groups. Students will be given a form showing itemized coverage upon request. The school is not held responsible for any charges in excess of the amount allowed by the insurance company. All accidents must be reported to the college nurse within 24 hours.

Students have the opportunity for consultation with the school physician and other members of the health staff who hold regular office hours in the Infirmary. This service is maintained by the College. If a student obtains medical aid from outside sources he must provide for the expenses involved.

Dispensary care only is given during summer school. The Infirmary is closed during regular school vacations.

### PERSONAL PROPERTY REGULATIONS

College property damaged by students will be replaced from the student's dormitory Breakage Fee Deposit. In case the breakage exceeds the deposit fee the student will be charged with the balance.

The college is not responsible for jewelry, money or other articles left in students' rooms, classrooms, or on the campus.

Whitworth College or any of its officers or organizations are not responsible or liable in any way for damages done to property or persons in case of accidents in and around the college buildings or on trips representing the college in any activities. Students, faculty, and others participating in any college function, on or off the campus, do so at their own risk.

Guns are not permitted on the campus without the consent of the Dean of Men or Dean of Women.

### RELIGIOUS LIFE AND ACTIVITIES

It is the purpose and desire of the administration to give leadership to the religious life on the campus which is helpful and inspirational and thoroughly Christian. Numerous organizations and activities are provided to aid in the development of such a standard of life.

### SOCIAL LIFE

The social life on the campus is under the general direction of the ASWC Social Committee made up of a representative from each class with the student body vice-president as chairman. A great many social events are held during the year, including Freshman Week activities, Homecoming, Hanging of the Greens, Snow Frolic, Beefsteak Breakfast, and the May Festival. Many other affairs are held by the classes, dormitory groups, and other organizations. Social dancing and playing cards are not permitted at Whitworth or at any Whitworth sponsored function.

### STUDENT CONDUCT

Whitworth College seeks to inspire in its students a high standard of conduct on the basis of Christian ideals. Students are expected to show proper respect for the college, its regulations and properties, and to respect the rights of others, both off and on the campus. Students shall not use intoxicating liquors at any time and the use of tobacco upon the campus is prohibited.

## ACADEMIC REGULATIONS

### ACADEMIC LOAD

Fifteen to sixteen hours, exclusive of physical education, is the normal schedule. An average grade of 3.00 (B) in the preceding semester is required for an eighteen hour schedule. A failure in any one course in any semester will lead to a reduction of a student's schedule in the succeeding semester.

Students wishing to audit certain classes may do so provided that they register for the course as an audit, and provided that they take into consideration that one-half the hours audited will count towards the total load being carried. The amount charged for auditing a course will be found under fees.

Students finding it necessary to work part-time while attending college are expected to reduce their academic load in accordance with the following:

Those working from 1-2 hours per day, may take 15-17 semester hours.

Those working from 3-4 hours per day, may take 14 semester hours.

Those working from 5-6 hours per day, may take 8-12 semester hours.

Those working from 7-8 hours per day, may take 6-8 semester hours.

Any student desiring to enroll for more hours than the above schedule would permit must petition the Academic Board for permission.

Part-time work may be defined as any work which requires part of the student's time for which he receives remuneration, such as: office work, janitor work, regular church work, assistant pastors, choir directors or similar positions.

Foreign students who plan to work must secure written permission from the immigration office. Forms must be approved by the Registrar.

### ATTENDANCE—ABSENCES

Regular attendance is required in all classes and at all college chapel and assembly periods. Class attendance is kept by the individual instructors and absences will be reported to the Dean's office.

Voluntary absence from class or laboratory is a distinct loss to the student and will be considered in the preparing of grades.

Students finding it necessary to be absent for a period of two days or for an individual class should, when possible, make arrangements with the instructor before the absence; if not before, then as soon as possible following. Should the absence require more than two days, such permission should be secured from the Academic Board.

If the total number of a student's absences (excused and unexcused) exceeds three times the number of class hours per week, registration in that course may, at the discretion of the instructor and the Academic Board, be cancelled and the student's grade becomes an "F." Chapel absences are treated in the same manner as class absences and a grade of "S" or "F" will be recorded at the close of the semester, determined by number of chapel absences. The Academic Board reserves the right to drop from college any student at any time whose record warrants such action.

Grade cuts for unexcused absences are to be the responsibility and at the discretion of the individual instructor.

Students who have unexcused absences prior to or following a holiday period will receive double zero's for the classes missed.

### CLASSIFICATION

A student's classification is determined at the beginning of each semester according to the following plan:

Sophomore	28 semester hours and 56 grade points.
Junior	60 semester hours and 120 grade points.
Senior	90 semester hours and 180 grade points.

### CHANGE OF CLASS SCHEDULE

A student may not withdraw from any class or change his registration from one class to another without written permission. Such changes must be filed with the Registrar and have the approval of the instructor whose class is being dropped, and one whose class is being taken up, and the approval of the Registrar. All approvals must be in writing on the official "Change of Enrollment Form." A student withdrawing from a class after the third week of a semester must be passing in each course from which he seeks a withdrawal or receive an "F" in the course he drops. No student may withdraw from classes three weeks prior to the end of the semester and receive a "W" except such withdrawal has the approval of the Academic Board. Courses cannot be added to a student's schedule after the third week of the semester.

### ELIGIBILITY REQUIREMENT

To participate in any organized extra-curricular activity held on or off the campus or to represent the college or any organization in a public way, a student must be regularly registered and making passing grades in at least twelve hours of college work.

No student on probation or suspension, and no student with outstanding conditions on previous quarter's work, may represent the college in any public event or hold any elective or appointive office.

## EXAMINATIONS

**Freshmen.** All freshmen take examinations at the time of entrance as an aid to subsequent guidance. These examinations include a general psychological test and an English test which is used as a basis for assignment of the student to the proper section of English Composition.

**Final.** Final examinations are given in all subjects at the close of each semester. Students who for reasons of illness or necessity find it impossible to report for a final examination may petition the Academic Board for permission to take a make-up examination. In no case will the examination be given in advance of the scheduled time.

**Scheduled.** Examinations which have been regularly scheduled must be taken at the time set. Failure to comply with this regulation means that the student must secure permission from his instructor to take a make-up examination.

**Validating.** Validating examinations are given at scheduled times for the benefit of students who have had a given course and can show proof of having had the course for which they have no transferable credit, provided that the course corresponds to one offered at Whitworth College. (See validating credits for further information.) Such examinations will cost the student a fee of 75 cents per credit hour received and cannot exceed \$10.00 for any one course. No test will be administered for less than \$1.00.

Students seeking to validate certain credits must make application for such validation during the first semester of residence and examinations for such validation must be completed before the end of the first year of residence.

Secretarial Science 1 and 2, which is to be validated in the departments of Advertising, Christian Education, Economics and Business, Journalism, and Secretarial Science, must be cleared during the freshman or sophomore year. If not cleared by this time, the student must register for the course not later than the beginning of his junior year. For transfer students, the course must be validated according to the above residence regulation.

## FAILURES

Parents or guardians of freshman students under 21 years of age will be notified of unsatisfactory or failing work at the end of each semester unless the student has filed evidence that he is self-supporting or a veteran.

A student will be requested to withdraw from the college whenever his record is considered unsatisfactory by the Academic Board according to the regulations listed above.

## GRADES AND GRADE POINTS

Grades are given and recorded as follows: A is 100-96; B, 95-88; C, 87-78; D 77-70; W, Withdrawal; S, Satisfactory without grade; F, Failure; I, Incomplete; and an "n" after a course signifies that the course is hyphenated, and no credit will be given until the second semester's work is completed. S, signifies satisfactory chapel attendance.

An Incomplete is given only in cases of excused absences, illness, etc., and must be made up within six weeks after the beginning of the first regular term after the incomplete is given. At this time the final grade is recorded as turned in by the faculty member.

In order for the student to remain in good academic standing he must earn at least twice as many grade points as he has hours. Grades carry the following grade point equivalents for each academic hour pursued: A, counts 4; B, 3; C, 2; D, 1; W and F, 0.

## HONORS

Two classes of honors are recognized at Whitworth College.

1. Semester Honors: Granted to students carrying at least fourteen semester hours of work and making a grade point average of 3.25.

2. Graduation Honors: A student who has been in attendance at Whitworth College for two of his four college years is eligible for the following honors: *cum laude* if he has earned an average of three and three-tenths grade points; *magna cum laude* if he has earned an average of three and seven-tenths grade points; and *summa cum laude* if he has earned an average of three and nine-tenths grade points. The requirement is based on the total of 124 semester hours required for graduation.

### INVESTITURE

Every year just before Commencement arrangements are made for investiture services at which all graduating seniors are required to wear the academic dress denoting their academic status. These occasions, together with the Fall Convocation, Baccalaureate and Commencement services, constitute the formal ceremonies for the year.

### LOWER AND UPPER DIVISION WORK

Courses are divided into lower and upper division work. The lower division subjects, those numbered in the catalog from 1-49, consist of foundation courses designed primarily for freshmen and sophomores. Lower division students are not permitted to enroll in upper division courses without permission from the Dean and from the Head of the Department in which the student seeks enrollment.

Upper division courses, those numbered from 50-100, presume the satisfactory completion of foundation courses and are intended for junior and senior students only. A minimum of forty semester hours in upper division courses taken in the junior and senior years is required for graduation. The graduate courses are numbered 100 and above.

Students of upper division standing enrolling for lower division courses will be expected to do additional work to be determined by the instructor. They can not register for more than one-third of their scheduled hours on the lower division level unless by permission of the Dean or the Registrar.

Courses numbering from 1-29 given on lower division level cannot under any circumstances be raised to upper division level by additional work.

### PERSONNEL AND GUIDANCE

The College has the desire to give each student a definite plan of guidance. To accomplish this, incoming freshmen are assigned to specific members of the faculty who serve as curricular counselors throughout the freshman year and until such time as the student has elected his major, when the head of his major department becomes his advisor. The Counseling and Guidance Office cooperates with each department of the college in the matter of the giving of various personality, vocational interest, and subject aptitude tests as the demand by individual students. The office establishes certain hours during each week in which counseling on personality problems, assistance in the choice of college majors, and vocational direction are given. Specialized counseling in various fields is referred to department heads and faculty members. Additional counseling is carried on through the offices of the Deans.

### PROBATION AND DISMISSAL

A student who is not doing satisfactory work at the close of any semester is placed on probation. Probationary status applies for the one succeeding semester.

**Freshman:** A student must maintain a 1.75 grade point average or he will be placed on probation.

Freshman students who at the close of their first semester's probation fail to obtain the required average will be dropped.

**Sophomores, Juniors, or Seniors,** must maintain a 2. grade point average. Should they fail to maintain this average at the close of their first semester's probation they will be automatically dropped.

**Seniors:** Any senior who has completed the required number of credits for graduation but who has been placed on probation for low scholarship at the end of his first or last semester of his senior year shall not be permitted to file application for his degree until such time as his probation has been removed.



Probationary status for special students will be considered individually by the Academic Board.

The above action becomes effective automatically unless, in the judgment of the Academic Board, the probation should be extended.

The Academic Board reserves the right to drop from college any student, at any time, whose record warrants such action.

Students being placed on probation must limit their academic load not to exceed twelve hours.

A student on probation shall be ineligible to represent the college in any public appearance or to hold a major office.

### REGISTRATION

Fifteen to sixteen semester hours is a normal academic load.

The Freshman Week program, which includes testing and registration, will be held during Orientation Week. The administrative officers of the college and the faculty are available for conferences with freshman students at this time.

Sophomore, junior and senior registration takes place on Wednesday afternoon and Thursday of Orientation Week, at which time formal registration of all students is completed.

A fee of \$2.00 is charged for late registration, after the second week of the fall semester.

Students may not be admitted to the college after the third week of the semester except in special cases where the approval of the Academic Board has been given and a reduction in credit hours is made in each individual course.

## DEGREES AND REQUIREMENTS

Whitworth College offers courses of study leading to the degrees of Bachelor of Arts, Bachelor of Science, Bachelor of Education and Master of Education.

### REQUIREMENTS FOR BACHELOR OF ARTS AND SCIENCE DEGREE

1. To receive a Bachelor of Arts or Bachelor of Science degree a student must have satisfactorily passed 124 semester hours of work (including 4 semester hours of physical education). If for satisfactory reasons the physical education requirement is waived the additional hours must be taken in some elective field. The student must have accumulated a total of 248 grade points, equivalent to a grade point average of 2, or a "C" and have maintained the same grade point average in his major and minor fields.

### DIVISIONAL REQUIREMENTS

Each of the divisions constitutes a field of concentration. When a divisional major is offered, the number of semester hours required is listed at the beginning of the division.

### MAJORS AND MINORS

The student must select a major course not later than the close of the freshman year. A major shall consist of not less than 24 semester hours and not more than 50 semester hours (in the case of music 60 semester hours will be accepted) in any one department. The student must also select at least one minor which is to be approved by the head of the department in which the major is taken. A minor shall consist of not less than sixteen semester hours. The requirements for both majors and minors are set forth in the departments where the offerings are listed.

In the case of transfer students, 6 hours of the major must be taken at Whitworth College, unless the requirement is waived by the Academic Board and has the approval of the major department.

Individual study may be undertaken only by students in the Senior student division who have demonstrated a capacity for work of high quality and for initiative and independence in study. Such work must be approved by the instructor, and the Dean of the College.



**GENERAL GRADUATION REQUIREMENTS**

1. English Composition—6 hours—to be taken during the freshman year. (English 1 and 2 are generally required in the freshman year, but entering students with a high level of proficiency in writing may substitute other work in language and literature. To be graduated, all students must demonstrate continued competence in the language by maintaining the required standard in written work for all classes and by passing the language proficiency examination that is given in the junior year.)
2. Physical Education and Health Education—5 hours (Health Education to be taken during freshman or sophomore year and two hours a week of physical education activity classes to be taken throughout freshman and sophomore years).
3. Science and Mathematics—8 hours. (Of the 8 hours required, at least 4 must be in laboratory science).
4. Social Science—9 hours. (This may be taken from any of the following fields: economics, history, political science, sociology, or psychology.)
5. Public Speaking—2 hours. (Fundamentals of speech must be taken in the freshman or sophomore year unless the student wishes to satisfy the requirement by examination in which case this must be done during the freshman year, or first year of residence.)
6. Foreign Language (Department Requirement.) Departments requiring foreign language will work under the following plan:
  - (a). The ability to pass a proficiency examination in one foreign language or to meet the following requirements:
    1. If a student has had two years of a foreign language in high school and can qualify for intermediate language then he need only take one year in college, or 6 hours.
    2. Students who have had no previous foreign language will be required to complete two years, or 14 hours.
7. Bible—8 hours. (Six hours must be in Bible Literature, two hours may be taken in Christian Education or Religion during the junior or senior year provided that four hours of Bible have been completed. One course should be taken in each year of residence regardless of graduation plans.
8. Upper Division courses of at least 40 hours to be completed in the junior and senior years.

**RESIDENCE**

Transfer students must have earned at least twenty-eight hours in residence at Whitworth College.

Students transferring in their senior year must complete at least twenty-eight hours regardless of the total number already completed.

The student's last semester's work toward a baccalaureate degree must be taken in residence at Whitworth College except in cases of pre-medical, pre-technological, and pre-law students who may find it possible to use their professional school credits in lieu of their senior year.

**EXTENSION CREDIT**

A limited amount of extension credit is acceptable towards a degree, but only when general requirements have been met and after the student has satisfactorily completed one year in residence at Whitworth College.

No resident student may take an extension course without the consent of the Dean and the Registrar.

**ATTENDANCE AT COMMENCEMENT ACTIVITIES**

No degree will be granted in absentia unless special arrangements are made and permission is granted by the Academic Board.

No student will be permitted to appear at graduation or participate in senior events who has not completed the required work for a degree.

### VALIDATING CREDITS

Students transferring from other institutions who wish to validate certain courses must make application to the Academic Board for such validation during the first semester of their attendance at Whitworth College and the courses must be validated during the first year of residence.

### BACHELOR OF EDUCATION DEGREE

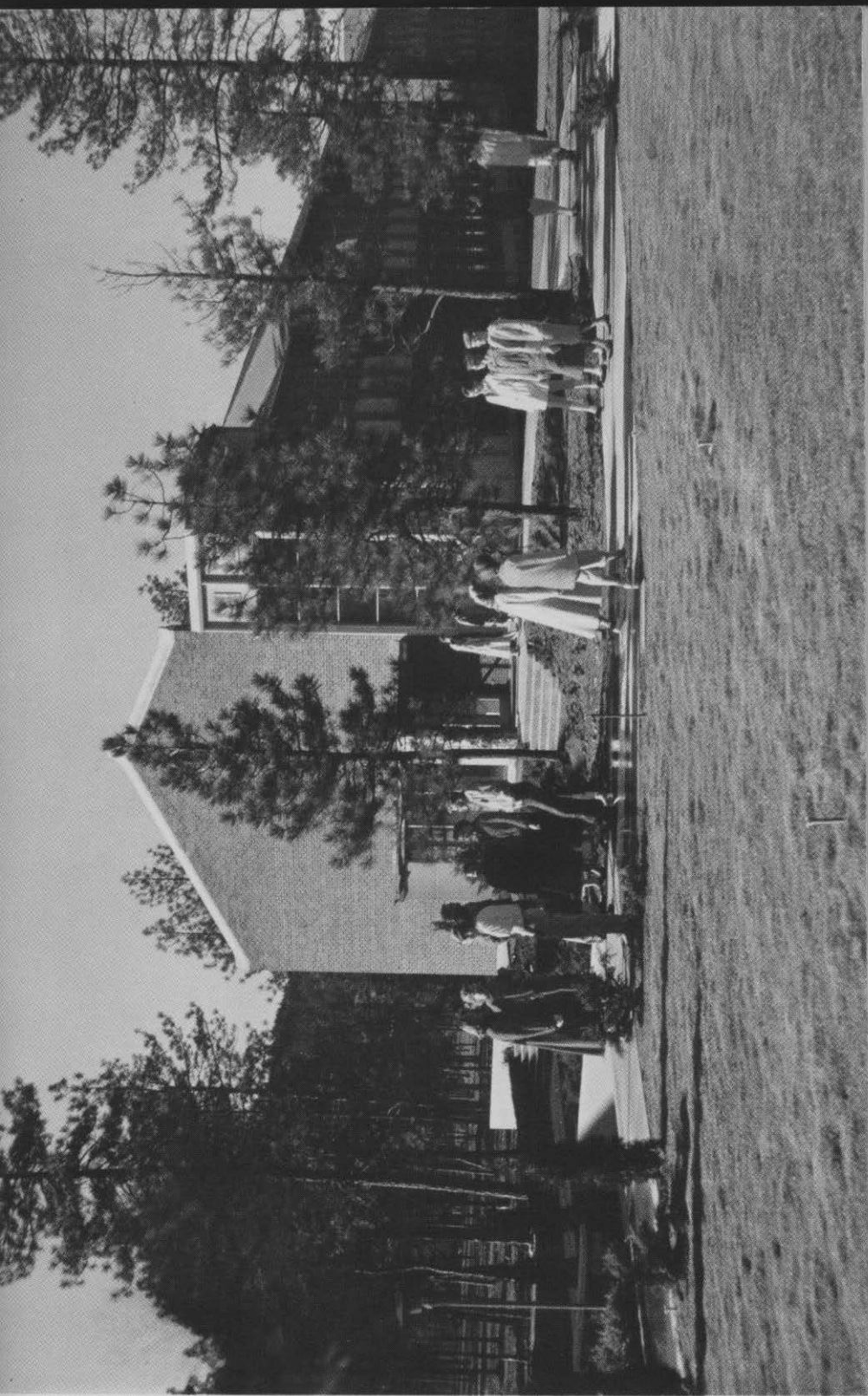
Any student having completed the five-year teacher training course may receive a degree of Bachelor of Education if he has satisfied the following conditions:

1. Has received a Bachelor of Arts or Bachelor of Science degree from an accredited institution.
2. Has fulfilled the requirements for state certification.
3. Has thirty semester hours of residence work at Whitworth College beyond the bachelor's degree.
4. The course schedule must have the approval of the Department of Education.

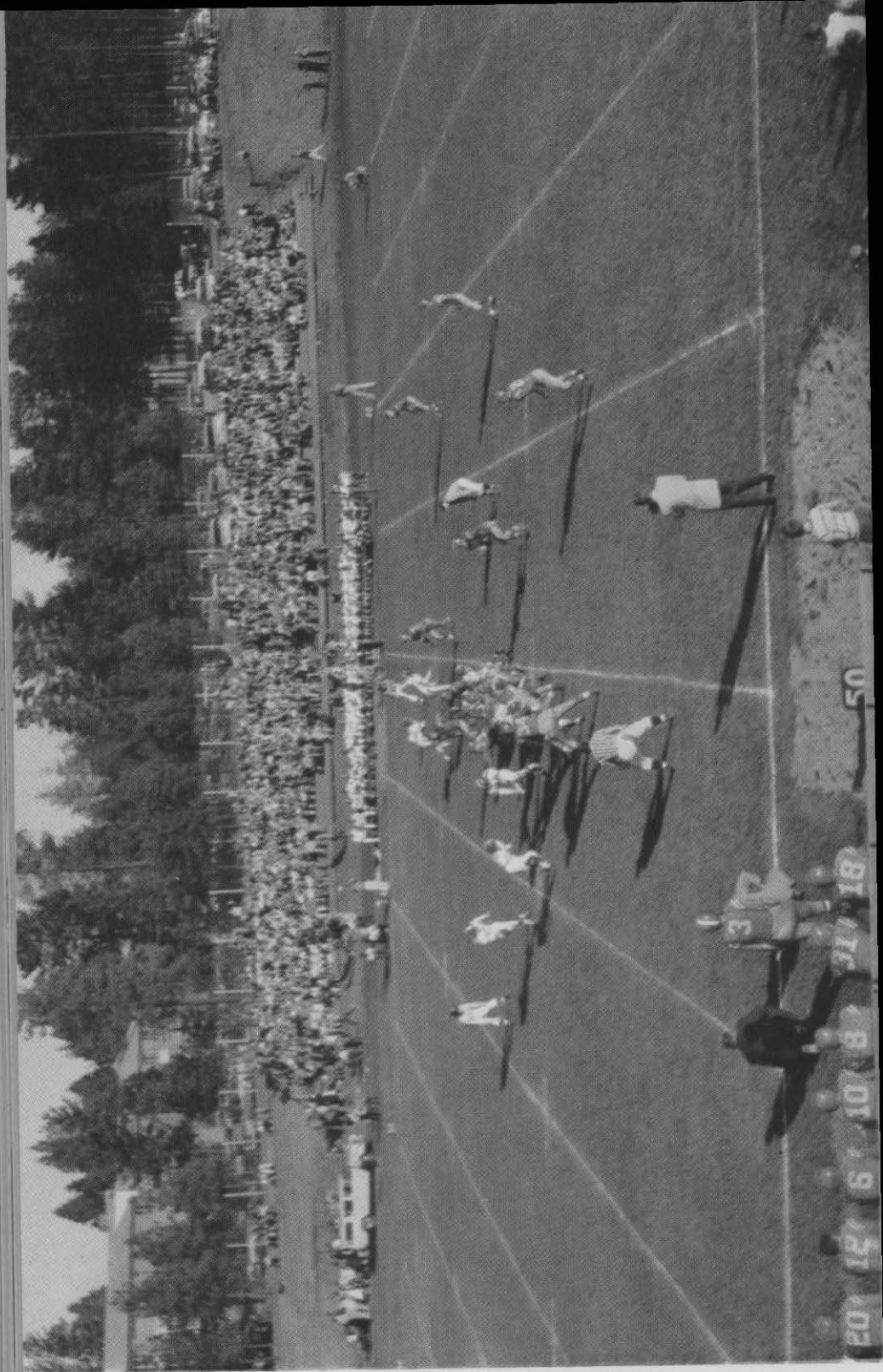
### MASTER OF EDUCATION DEGREE

The general requirements for the degree follow:

1. The filing of an application together with an official transcript of record must be forwarded to the Dean of the Graduate School. The work presented for admission must include a minimum of 16 hours of education.
2. A Bachelor's Degree must be held from an accredited college or university with a grade point average of three or above (B) in his upper division work. A candidate with a lower average who shows promise of success may be admitted, on probation, by action of the Graduate Committee but he will be dropped if his grades in graduate work fall below a three point average.
3. A minimum of 30 semester hours of graduate courses will be required with a grade point average of three.
4. The work for the Master's Degree must be done in residence, and if the candidate expects to complete this work in one year, he must be able to give his whole time to it. If the whole of his time cannot be given, the period of preparation must be extended accordingly. All work, including the thesis and/or educational study when required, must be completed within a five-year period.
5. Two semesters of residence (24 semester hours) at Whitworth is required. A transfer of not more than six semester hours from other institutions is allowed.
6. Each candidate shall elect one of the three degree programs.\* When a student elects Plan I or II, a committee of two faculty members is appointed by the Graduate Committee to assist and direct in the student's research. Before selecting a research topic the student must obtain credit in Education 200, Thesis (Methodology of Research).
7. Not later than three weeks before the commencement, at which the candidate expects to receive a graduate degree, he must present three bound copies of his completed thesis or educational study and he must appear before the Graduate Committee, which may be enlarged by additional members, for a comprehensive oral examination. If Plan II or III is chosen, the candidate must pass a comprehensive written examination.
8. The Master's Degree will be conferred only at the end of the regular academic year. Any student finishing his work during the summer must return the following spring for graduation exercises.



Instructional Center



Football Action



## DEGREES AND REQUIREMENTS

\*The graduate program is planned to meet the needs of teachers and administrators and those who wish to enrich their educational preparation for teaching. In order to achieve this purpose, three programs have been planned leading to the Master of Education Degree:

1. Thirty semester hours of work, of which nine semester hours may be taken in the approved departments of the college other than education. A thesis is required.
2. Thirty semester hours, of which twelve may be taken in a department of the college other than education. The report of an educational study is required.
3. Thirty-three semester hours of study of which twelve may be in departments of the college other than education.

An oral examination will be required of all candidates writing a thesis. Those who choose Plan 2 or Plan 3 will be requested to take a comprehensive written examination.

Written exams for three courses must be taken from the following foundational areas of education:

Advanced Tech. of Couns. & Guidance .....	3 hours
Current Educational Thought .....	3
Advanced Educational Psychology .....	3
Seminar in History and Philosophy of Ed. ....	3

Courses may also be selected from three functional areas of education. The courses offered in these fields are as follows:

Administration	Curriculum
Organ. & Admin. of Sec. Schools	Foundation of Curr. Development
Organ. & Admin. of Elem. Schools	Spec. Probs. in the Development of
Public School Finance	Curricular Materials
The School & Community Relations	Student Activity Programs
Guidance	
Prin. & Techniques of Guidance	
Adv. Techniques of Counseling	

Additional courses may be chosen from the following offerings:

Readings in Education .....	3 hours
Research Seminar .....	2-4
Thesis .....	3
Diagnostic & Remedial Teaching .....	3
Principles of Adult Education .....	3
Adv. Principles of Education .....	3

Graduate courses in the Department of Education are numbered 100 and above.

The graduate may select, not to exceed 12 semester hours, in the following academic areas: art, biology, business administration, chemistry, English, modern language, music, religious education, and sociology.

For further information regarding the Graduate Program, for copies of the Graduate Bulletin, and the current schedule of Graduate classes, address DIRECTOR OF ADMISSIONS, WHITWORTH COLLEGE, SPOKANE, WASHINGTON.



## DESCRIPTION OF COURSES

Departments are arranged in alphabetical order under each of the five divisions. The list of courses numbered from 1 to 20 are courses open primarily to Freshmen, and courses from 1-49 are open to Sophomores. These are designated as lower-division work. The courses listed as 50 or above are open in most cases only to Juniors and Seniors and constitute upper-division work. The courses listed as 100 or above constitute graduate work. The term "hour" means a semester hour of credit. Laboratory courses involve from two to three hours of laboratory work for one semester hour of credit. The administration reserves the right to withdraw any course when the enrollment does not warrant its continuance.

### *Division of Fine Arts*

#### ART

Mr. Kochler

Mr. Larson

Mr. Keys

#### Objectives of the division and departments.

The aims of the Division of Fine Arts are to advance the appreciation of art and music; to develop specific talents in this area for those who wish to become teachers or professional artists and musicians; and, to give personal enjoyment to all who desire the enrichment of the aesthetic side of life in a well-balanced liberal arts program.

A wide variety of opportunities make it possible for the student to choose the specific activity that suits his individual needs and abilities. The artist and musician alike must be equipped with sufficient technical proficiency to contribute through his profession in such a manner that the fine arts exist as a constructive force in a modern world.

#### Major Requirements.

The following courses for the regular Fine Arts Major required for graduation are: 1, 2, 7, 8, 21, 22, 25, 26, 34, 36, 45, 51, 52, 55, plus 16 hours of electives in Art. A total of 44 hours.

The following art courses are required for graduation in commercial art: 1, 2, 7, 8, 25, 26, 34, 37, 38, 41, 42, 45, 61, 62, 63, 71, 72, 78 plus 4 hours of art electives. Those majoring in commercial art should minor in advertising, which includes Advertising 48, 49, 50, 70 and Journalism 40. Commercial art majors should meet their science requirement by including Physics 8 and 68.

#### Minor Requirements.

The following courses are required for Fine Arts Minor: 1, 2, 7, 8, 25, 45, 55, plus 10 hours of electives. A total of 24 hours.

A commercial art minor shall consist of art courses in: 5, 25, 26, 34, 41, 42, 71, 72. Those wishing to major in advertising, please see page 49.

The Art Department of Whitworth College offers a non-degree course in Commercial Art. The Commercial Art subjects listed below are regularly approved subjects: Art 1, 2, 7, 8, 21, 22, 25, 26, 34, 35, 37, 38, 41, 42, 51, 52, 61, 62, 63, 65, 66, 71, 72, 78, 85, 86, 91, 92, 95. These courses may be taken through the Art Extension.

Students working toward the General Teaching Certificate in the State of Washington and choosing the field of Art from the broad area of Fine Arts and Applied Arts must complete a total of 24 semester hours including the following: 1, 2, 7, 8, 25, 45, 53, 55.

All courses listed except 36, 44, 45, 53, 55, 77, 79, 82, may be taken through the Whitworth College Art Extension service which is held in the downtown studios of Mr. Keys. For information see Mr. Keys, Mr. Kochler or the Registrar.

**PRIVATE LESSONS:** Private lessons are arranged at the regular college rates. A student may take one or two lessons a week, each of which is two hours in length.

Courses listed here and taken from Mr. Keys may be taken for from 1-4 semester hours each after consultation with the Art Department.

Foreign language is recommended but not required for all Art majors.

A suggested outline for Art Majors includes the following:

**FRESHMAN YEAR**

First Semester		Second Semester	
	Hours		Hours
Beginning Drawing .....	2	Beginning Drawing .....	2
Beginning Design .....	2	Beginning Design .....	2
Lettering .....	2	Poster Design .....	2
English Composition .....	3	English Composition .....	3
Bible .....	2	Health Education .....	1
Fundamentals of Speech .....	2	Physical Education .....	1
Physical Education .....	1	Psychology .....	3
Electives .....	2	Electives .....	2
	<hr/> 16		<hr/> 16

**SOPHOMORE YEAR**

First Semester		Second Semester	
	Hours		Hours
Introduction to Painting .....	2	Introduction to Painting .....	2
Figure Sketching .....	2	Contemporary Art .....	2
Art Electives .....	2-4	Bible .....	2
Social Science .....	3	Science .....	4-5
Science .....	4-5	Physical Education .....	1
Physical Education .....	1	Electives .....	4
	<hr/> 15-17		<hr/> 15-16

**JUNIOR YEAR**

First Semester		Second Semester	
	Hours		Hours
Creative Painting .....	2	Creative Painting .....	2
Art Electives .....	4	Bible .....	2
Social Science .....	3	Electives .....	7
Electives .....	6	Art Electives .....	4
	<hr/> 15		<hr/> 15

**SENIOR YEAR**

First Semester		Second Semester	
	Hours		Hours
Painting and Composition .....	2	Painting and Composition .....	2
Bible .....	2	Art Electives .....	4
Art Electives .....	4	General Electives .....	9
General Electives .....	8		<hr/> 15
	<hr/> 16		

Note: A minor must be selected from the elective hours.

**ART COURSES****1, 2. BEGINNING DRAWING**

Two hours each semester

Introduction to drawing, use of perspective, function of light in the expression of form, and the development of rendering techniques.

**5. BASIC DRAWING AND DESIGN**

Four hours first semester

Introduction to drawing, use of perspective, and a study of the principles of Art relating to their function and application (this is a combination of Art 1 and 2 for Advertising majors).

- 7, 8. **BEGINNING DESIGN** Two hours each semester  
A study of the underlying principles of all Art, their function and their application.
- 21, 22. **INTRODUCTION TO PAINTING** Two hours each semester  
A study of the painting craft with emphasis on the use of color and composition.
25. **LETTERING** Two hours each semester  
Principles of design applied to good letter form and alphabet types. Emphasis on lettering techniques.
26. **POSTER DESIGN** Two hours each semester  
Development of lettering techniques and layout design for display advertising.
34. **FIGURE SKETCHING** Two hours first semester  
Development in the skill of rapid drawing of the figure from the model in many short poses suitable to fashion drawing and illustration.
35. **FIGURE DRAWING** Two hours  
A careful study of the human figure from the model. Some study of anatomy.
36. **INTRODUCTION TO CRAFTS** Two hours  
Offered to P.E. majors, Home Ec. majors, and anyone interested in craft work as an avocation or in physio-therapy or youth work of any kind. Required of Art majors and minors.
- 37, 38. **PRODUCTION ASSEMBLY ILLUSTRATION** Two Hours  
Industrial application of technical drawing for reproduction in catalogues for various defense industries. Prerequisite 1 and 2.
- 41, 42. **COMMERCIAL ART** Two hours  
Application of Art principles to commercial problems of layout in the advertising field.
44. **INTRODUCTION TO SCULPTURE** Two hours  
Methods of working in clay, casting and carving in various mediums.
45. **CONTEMPORARY ART APPRECIATION** Two hours second semester  
A survey of the contemporary arts of architecture, sculpture, painting, industrial and applied design. A lecture course.
46. **INTRODUCTION TO CERAMICS** Two hours  
An introduction to ceramic art and methods of producing various types of pottery, firing, and glazing.
- 51, 52. **CREATIVE PAINTING** Two hours each semester  
Advanced problems in the more creative aspects of painting. Emphasis is on composition.
53. **ART EDUCATION METHODS** Two hours each semester  
This course is designed for non-art majors and for those who are interested in elementary school art. It is designed to show the prospective teacher methods of organizing materials and the effective presentation.
55. **WORLD HISTORY OF ART** Two hours second semester  
Survey of all the arts from ancient times to the 20th century and their influence on modern art expressions. A lecture course.
61. **COMMERCIAL ILLUSTRATION** Two hours  
Techniques in preparing illustrations in mediums suitable for reproduction commercially.
62. **ILLUSTRATION** Two hours  
Illustrations done in lithography, etching, block printing, etc. A course in print-making of various types and their use in advertising.
63. **FASHION ILLUSTRATION** Two hours  
Processes of producing fashion drawings for commercial reproduction.
- 65, 66. **PAINTING AND COMPOSITION** Two hours each semester  
Advanced study of the problems of picture making. Emphasis is on composition.

- 71, 72. **ADVANCED COMMERCIAL ART** Two hours each semester  
A technical study of commercial problems of reproduction. Silk screen process, airbrush, retouch, etc.
77. **ADVANCED SCULPTURE** Two hours  
Advanced study of stone carving, wood carving, clay and plaster molding.
78. **AIR BRUSH TECHNIQUE** Two hours  
A course designed to develop skill in the airbrush phases of art requiring airbrush technique.
79. **ADVANCED CERAMICS** Two hours  
A continuation study of Art 46.
82. **CRAFTS** Two hours  
A continuation of Art 36.
- 85, 86. **ADVANCED PAINTING TECHNIQUES** Two hours  
An advanced study of painting for Art majors only.
- 90, 91, 92. **ADVANCED COMPOSITION** Two hours  
An advanced study of the problems of composition.
95. **ART PHOTOGRAPHY** Two hours  
A study of the relationship of Art and photography and the application of the principles of design to photography. Also experimentation in unusual lighting effects and non-objective approach to photographs.

## MUSIC

Mr. Anders

Mrs. Carrel

Miss Heritage

Mr. Carlsen

Mrs. Waltz

Mr. Martin

### Major Requirements.

**Basic Core:** Sixteen semester hours of applied\* and ensemble\*\* music, of which not less than eight hours must be in the applied area; twenty semester hours of theory including courses 19, 20, 35, 36, 61, 62, two semester hours of conducting and recital.

**Applied Emphasis:** A minimum of twelve semester hours must be taken in the major performing medium.

**Choral Emphasis:** In addition to the basic core a professional minor of eight semester hours must be elected from the following courses with the counsel of the major adviser: 5a, 5b, 50a, private piano, 59 and 60a.

**Instrumental Emphasis:** In addition to the basic core a professional minor of eight semester hours must be elected from the following courses with the counsel of the major adviser: 5a, 5c, 5d, 5e, 56 and 60b.

**General Elementary Music Emphasis:** In addition to the basic core a professional minor of eight semester hours must be elected from the following courses with the counsel of the major adviser: 5a, 5b, 5c, 5d, 5e, 6, 56 and 59.

**Church Music Emphasis:** In addition to the basic core the following courses must be elected as supporting subjects: at least three semester hours of applied music (if the major performing medium is voice, piano should be elected; if the major performing medium is organ, voice should be elected); 77 and 78.

### Minor Requirements.

A minor in music shall consist of the following courses: six semester hours of applied music, two hours of which may be satisfied in class applied; four semester hours of ensemble, six semester hours of theory (Music 19 and 20) and eight hours of music electives.

\*One-half of the applied requirement must be pursued in private study.

\*\*Majors in the instrumental area must elect either band or orchestra as their music activity during each year of study. Majors in the choral and church music field must elect either chorus or a cappella choir as their music activity during each year of study.



## COURSES IN THEORY AND MUSIC EDUCATION

- 4. FUNDAMENTALS OF MUSIC** Two hours  
 This course is designed for the non-major and the general education student who has not had previous musical training. The rudiments of music are presented beginning with notation and progressing through scale structure, intervals and the simplest harmonic progressions. Rhythm and elementary sight singing are stressed. The various conductor beat patterns are taught so the student will be equipped for song leading.
- 6. MUSIC APPRECIATION** Three hours  
 An introduction to the literature and aesthetic principles of music. Intensive listening to and studying of works from all periods are used to develop a background of music and its literature.
- 9. MUSICAL ACOUSTICS** Four hours  
 (For description, see Physics Department.) This course is recommended as a laboratory science for music majors.
- 19, 20. THEORY I, II** Three hours each semester  
 This course is designed to give a thorough training in the melodic, harmonic and rhythmic elements of music. Triad types, intervals, key, scale structure, notation, rhythmic reading, sight-singing, melodic and rhythmic dictation comprise the work of the first semester. In the second semester chord and key relationships, cadences, the study of four-part writing through analysis, harmonic and two-voice contrapuntal dictation are introduced. The class meets five days per week.
- 35, 36. THEORY III, IV** Four hours each semester  
 A continuation of Theory II. The study includes four-part writing, modulations, altered chords, the classification and use of non-harmonic tones, the seventh chord, the harmonization of chorale melodies and an introduction to harmonic counterpoint. Four-part dictation parallels the written work. Prerequisite, Music 20.
- 56. INSTRUMENTATION AND ELEMENTARY SCORING** Three hours  
 A study of the tone qualities, ranges, and special characteristics of the instruments of the orchestra and band. Arrangements will be made for string, woodwind and brass ensembles, as well as for orchestra and band. Prerequisite: Music 35.
- 57. CONDUCTING** Two hours  
 Basic technique including the use of the baton, duties of the left hand, and an acquiring of ambidexterity are given primary consideration before the actual laboratory experience of conducting choral and instrumental groups is afforded. Prerequisite: Music 20, or consent of the instructor.
- 59. ELEMENTARY CLASSROOM MUSIC** Three hours  
 Classroom procedures and materials conventionally used in the elementary classroom such as phonograph recordings, pre-band and rhythm instruments, the autoharp, etc., are given special consideration as well as the child's voice, the rote song and notation. Recommended supporting electives: Music 4, 5a, 5b, 6, and 19.
- 60a. CHORAL TECHNIQUES, PROBLEMS AND MATERIALS** Two hours  
 A consideration of the organization of various kinds of choral groups with special emphasis on the junior and senior high school program; problems and techniques of choral conducting and rehearsal procedure; principles of tone production; the study of a large selected list of the various types of choral literature, including both accompanied and a cappella; developing the musicianship of a choral group. Prerequisite: Music 57.
- 60b. INSTRUMENTAL TECHNIQUES, PROBLEMS AND MATERIALS** Two hours  
 A study of the organization and administration of instrumental music in the public schools. A survey will be made of instrumental class methods, instrumental ensemble literature as well as materials for bands and orchestras from the elementary level through high school. Rehearsal techniques will be considered with special emphasis given to instrumental conducting and score analysis. Prerequisite: Music 57.

4 sec Prof. Muses



- 61, 62. LITERATURE AND ANALYSIS** Three hours each semester  
 A survey of the literature of music with emphasis on listening for the purpose of developing understanding of music as an art. Styles of the historical periods are studied to show the growth of the simple musical phrase to the large forms of Bach, Beethoven, etc.
- 77. SURVEY OF HYMNOLOGY** Two hours  
 The history of the English Hymn, with particular attention to the Greek and Latin hymns; also a study of the contribution made to hymnody by the Protestant denominational groups during the 18th and 19th centuries. Each student will be coached in song-leading and the leading of hymn singing.
- 78. CHURCH MUSIC AND FIELD LABORATORY** Three hours  
 A consideration of the historical development of church music and liturgy; organization and problems pertaining to the adult choir; organization and problems pertaining to choirs made up of unchanged voices; anthems suitable for all choirs; practical experience in churches of the Spokane area.

### APPLIED MUSIC\*

(Class and Private)

Private or Class Lessons in applied music are available to any student of Whitworth College, major or non-major.\*\*

- 5a, b, c, d, e. FUNDAMENTAL TECHNIQUES** One hour  
 Class instruction in piano, voice, and the various band and orchestral instruments, treating primarily of the basic technical problems in the different categories of applied music.
- 30, 31a, b, c, d, e, f. SURVEY OF APPLIED LITERATURE** One hour each semester  
 A laboratory for the study of performance materials. The course is designed so as to give the student the opportunity to profit by the instruction and criticism of fellow students in class performance.
- 50, 51a, b, c, d, e, f. SURVEY OF APPLIED LITERATURE** One hour each semester  
 A continuation of Music 31, this course is planned for upper division and advanced students.

### PRIVATE INSTRUCTION—(One half-hour lesson, one hour daily practice)

One hour

- 16, 17a, b, c, d, e, f. (Freshman Year)  
 24, 25a, b, c, d, e, f. (Sophomore Year)  
 63, 64a, b, c, d, e, f. (Junior Year)  
 93, 94a, b, c, d, e, f. (Senior Year)

\*a—piano, b—voice, c—strings, d—woodwinds, e—brass and percussion, f—organ.

\*\*Students of the department of music are required to report all public appearances in advance to their respective instructors.

### ENSEMBLE MUSIC

- 21, 71. COLLEGE CHORUS** One hour each semester  
 Open to all students of Whitworth College interested in choral singing. Basic principles of good tone production and breath control are emphasized in addition to the performance of representative literature.
- 22, 72. A CAPPELLA CHOIR** One hour each semester  
 Membership is secured by audition and is open to all students of Whitworth College. In addition to a study of the great choral literature from the sixteenth century to the modern period, experience is also afforded in oratorio as well.
- 23, 73. VOCAL CHAMBER MUSIC** One hour each semester  
 Students interested in musical growth in the area of quartets, trios, madrigal groups, etc., should register under this course.

**31, 81. CONCERT BAND****One hour each semester**

Open to all students of Whitworth College upon recommendation of the conductor. Literature performed will include concert marches and some of the Sousa marches as well as standard concert literature and the works of contemporary composers.

**32, 82. CONCERT ORCHESTRA****One hour each semester**

Open to all students of Whitworth College upon recommendation of the conductor. Orchestral literature from all periods is studied and performed with the objective of providing the best possible musical development and experience for the instrumental musician.

**33, 83. INSTRUMENTAL CHAMBER GROUPS****One hour each semester**

Open to all students interested in some form of small instrumental ensemble.

## *Division of Health, Physical Education, and Recreation*

**Mr. Matters****Mr. Lounsberry****Mr. Merkel****Mr. Hintz****Miss Bruce****Miss Marks****Objectives of the division.**

To provide opportunity for the student to develop a desirable level of physical fitness; to develop optimum social growth; and to develop culturally.

**Broad Physical Education Program:**

1. The instruction in and knowledge of a variety of types of activities such as individual sports, dual sports, team sports, conditioning exercises, calisthenics, aquatics, rhythms, gymnastics, tumbling, and recreational sports.

2. Learning the fundamentals and rules of these activities.

3. The teaching of practical health essentials.

4. Participation and further enjoyment in these activities in a supervised intramural program, in recreational periods, in sport days, and in Intercollegiate Athletics.

5. A professional curriculum which will offer the necessary training for teachers in the field of health education, physical education, athletic coaching, and recreation.

**Objectives of the department.**

- 1 Physical fitness
2. Motor skills
3. Knowledge
4. Social objectives
5. Aesthetic or appreciation objectives

The Division of Health, Physical Education, and Recreation includes the following departments: Physical Education for men, Physical Education for women, the Professional Teacher-Training Course, Recreational Leadership, and Athletics.

The Department of Physical Education strives to give well-rounded instruction to each individual in team, dual and individual sports. In addition to class instruction, an extensive program in intramural and intercollegiate competition is offered.

The general program for men includes experience in aquatics, badminton, baseball, basketball, football, golf, tennis, track, tumbling, volleyball, and weight lifting. Women engage in aquatics, archery, badminton, basketball, field hockey, folk games, golf, rhythmic activities, soccer, softball, tennis, tumbling, and volleyball. Women also have intramural competition in archery, badminton, basketball, golf, tennis, softball, and volleyball.

The Whitworth program affords opportunity for the student to increase or develop his interests and abilities in physical education or recreational leadership as a career or as an avocation.

Whitworth College is a member of the Evergreen Conference, offering to men intercollegiate competition in six different sports. Four semester hours of physical education are required of all students. Many courses are given in the physical education and recreational leadership departments as elective for any students. Majors and minors are offered in both men's and women's physical education and recreational leadership. A general teaching certificate may be earned by following a course prescribed by the State Department of Education of the State of Washington.

### MEN'S DEPARTMENT

#### Major Requirements.

A total of 30 hours exclusive of four hours of activity courses is required for majors in physical education. The required courses for majors are: 29, 30, 35, ~~40~~ 73, 51, 76, 77 and 82 or 83 plus 4 hours in activity courses beyond 4 hours graduation requirement. Elective hours will be approved by the head of the Men's Physical Education Department.

Special requirements for majors are: Biology 20 and 21; Psychology 32 and 68.

#### Minor Requirements.

A minor in physical education consists of 18 hours exclusive of the four activity credits required for graduation. Required courses are: 29, 35 and 51. It is recommended that minors take Biology 20 and 21.

A prescribed uniform is required for all activity courses.

### MAJORS IN PHYSICAL EDUCATION FOR MEN

#### FRESHMAN YEAR

First Semester	Hours	Second Semester	Hours
English Composition .....	3	English Composition .....	3
Introduction to Sociology .....	3	Fundamentals of Speech .....	2
History & Principles of P. E. ....	3	Bible .....	2
Health Education .....	1	P. E. Activity.....	1
P. E. Activity.....	1	Electives .....	8
Electives .....	4		<hr/>
	<hr/>		16
	15		

#### SOPHOMORE YEAR

First Semester	Hours	Second Semester	Hours
Anatomy .....	4	Human Physiology .....	4
P. E. Techniques.....	2	Tumbling .....	1
General Psychology .....	3	First Aid .....	2
Bible .....	2	Developmental Psychology .....	3
P. E. Activity.....	1	P. E. Activity.....	1
Electives .....	4	Electives .....	5
	<hr/>		<hr/>
	16		16

#### JUNIOR YEAR

First Semester	Hours	Second Semester	Hours
Physiology of Exercise .....	2	Secondary School P. E. ....	3
Organization & Administra- tion of P. E. ....	3	Athletic Training .....	1
Kinesiology .....	3	Organization & Administra- tion of Intra-murals .....	1
Methods of Officiating .....	1	Correctives .....	2
Bible .....	2	Theory of Counseling & Guidance .....	2
Electives .....	5	Electives .....	7
	<hr/>		<hr/>
	16		16

SENIOR YEAR			
First Semester		Second Semester	
	Hours		Hours
Tests & Measurements .....	3	Directed Teaching .....	8
Teaching Football .....	2	State Manual .....	1
Bible .....	2	Washington State History .....	2
Organization & Administration of Intra-murals .....	1	Individual Research .....	1
Electives .....	8	Electives .....	4
	16		16

Note: All general requirements must be met and a minor must be selected from the elective hours.

### WOMEN'S DEPARTMENT Major Requirements.

A total of 30 hours is required for a major in physical education. Required courses for majors are: 29, 35, 40, 51, 71, 72 and 82 or 83 plus 4 hours of physical education activity courses beyond the graduation requirement to include 6 hours of P. E. 20 and 1 hour each of P. E. 17 and 19. Elective hours are to be approved by the Director of Women's Physical Education.

Special requirements for physical education: Biology 20 and 21; Psychology 32 and 68.

### Minor Requirements.

A total of 18 hours is required for a minor in physical education. Required courses for minors are: 29, 35, 51, 71, 72 and 82 or 83, plus 4 hours of physical education activity courses beyond the four hours graduation requirements. Recommended courses are Biology 20 and 21.

A prescribed uniform is required for all activity courses.

### MAJORS IN PHYSICAL EDUCATION FOR WOMEN FRESHMAN YEAR

First Semester		Second Semester	
	Hours		Hours
English Composition .....	3	English Composition .....	3
Introduction to Sociology .....	3	Fundamentals of Speech .....	2
History & Princ. of P. E. ....	2	Art .....	2
Health Education .....	1	Bible .....	2
P. E. Activity .....	1	P. E. Activity .....	1
Electives .....	6	Electives .....	6
	16		16

### SOPHOMORE YEAR

First Semester		Second Semester	
	Hours		Hours
Anatomy .....	4	Human Physiology .....	4
General Psychology .....	3	Developmental Psychology .....	3
Music .....	3	First Aid .....	2
P. E. Activities .....	2	P. E. Activities .....	2
Electives .....	4	Electives .....	4
	16		15

### JUNIOR YEAR

First Semester		Second Semester	
	Hours		Hours
Kinesiology .....	3	Correctives .....	3
Coaching .....	2	Coaching .....	2
Organization & Administration of P. E. ....	3	Secondary School P. E. ....	3
Curricular Methods & Materials .....	3	Curricular Methods & Materials .....	3
P. E. Activity .....	1	P. E. Activity .....	1
Electives .....	4	Electives .....	4
	16		16

## SENIOR YEAR

First Semester		Second Semester	
	Hours		Hours
Minor Sports .....	2	Student Teaching .....	8
Theory of Counseling		Washington State History .....	2
& Guidance .....	2	State Manual .....	2
Bible .....	2	Individual Research .....	1
Sociology .....	3	Electives .....	3
Electives .....	7		
	<hr/> 16		<hr/> 16

Note: All graduation requirements must be met and a minor must be selected from the elective hours.

## RECREATIONAL LEADERSHIP

This course is designed to train leadership in community, school, church, and agency activities. The curriculum is based upon the following:

1. General college graduation requirements.
2. Skills in recreational leadership.
3. Courses in theory and philosophy of recreation.
4. Courses in related fields as music, art, drama, and Christian Education.

## Major Requirements

A total of 32 semester hours is required for a major in recreational leadership. Required courses for majors are: 29, 33, 36, 39, 50, 69, plus 4 hours in activity courses beyond the 4 hours of graduation requirements. A minimum of 2 hours is required in each of the following related fields: speech and drama, music and art.

## Minor Requirements.

A total of 18 semester hours is required for a minor in recreational leadership. Required courses for minors are: 33, 36 or ~~36~~, 69, plus 4 semester hours in activity courses beyond the graduation requirement of 4 hours. A minimum of 4 hours is required in related fields. Elective hours are to be approved by the Director of the Women's or Men's Physical Education Department.

Special requirements for recreational leadership: Biology 3, 20; Psychology 32 and 68; Sociology 12. See the tentative four-year schedule for majors in recreational leadership.

## NOTE TO MAJORS IN RECREATIONAL LEADERSHIP

Summer experience between the junior and senior year will be required of all students. This will consist of a minimum of 6 weeks full-time experience without credit. This may be done in a playground, community center, settlement, summer camp, teen age center or recreational hall of a church, or a youth hostel. Assistance in placement will be offered by departmental staff.

## FRESHMAN YEAR

First Semester		Second Semester	
	Hours		Hours
English Composition .....	3	English Composition .....	3
Introduction to Recreation .....	2	General Psychology .....	3
Health Education .....	1	Fundamentals of Speech .....	2
Social Problems .....	3	Elementary Games for Rec.....	1
P. E. Activity .....	1	P. E. Activity .....	1
Human Anatomy .....	4	Bible .....	2
Electives .....	1	Electives .....	4
	<hr/> 15		<hr/> 16



## SOPHOMORE YEAR

First Semester		Second Semester	
	Hours		Hours
Community Rec. Program .....	2	Recreational Leadership .....	3
Introduction to Crafts .....	2	Camp Craft & Nature Activities .....	1
P. E. Activities .....	2	First Aid .....	2
Electives .....	10	Bible .....	2
	16	P. E. Activities .....	2
		Electives .....	6
			16

## JUNIOR YEAR

First Semester		Second Semester	
	Hours		Hours
Fundamentals of Music .....	3	Camp Leadership .....	3
Intro. to Journalism .....	1	Flora of the Region .....	4
Bible .....	2	Intro. to Journalism .....	1
P. E. Activities .....	2	Intro. to Religious Drama .....	2
Electives .....	7	Developmental Psychology .....	3
	15	Electives .....	3
			16

SUMMER EXPERIENCE: A minimum of six weeks full-time experience without credit. You will be assisted in placement by the department.

## SENIOR YEAR

First Semester		Second Semester	
	Hours		Hours
Admin. of Play and Rec.....	3	Correctives .....	3
Rural Sociology .....	3	Theory of Couns. & Guid. ....	3
Bible .....	2	Electives .....	10
Electives .....	8		16
	16		

Note: A minor must be selected from the elective hours and all general requirements must be met.

## PHYSICAL EDUCATION ACTIVITY COURSES

5. VARSITY FOOTBALL (MEN) One hour
6. VARSITY BASKETBALL (MEN) One hour
7. VARSITY BASEBALL (MEN) One hour
8. VARSITY TRACK AND FIELD (MEN) One hour
9. VARSITY TENNIS (MEN) One hour
10. VARSITY GOLF (MEN) One hour
11. TEAM SPORTS (MEN AND WOMEN) One hour each semester

Two hours laboratory a week.

A—Beginning

B—Intermediate

C—Advanced

Field Hockey, Football, Soccer and Volleyball (first semester).

Basketball and Softball (second semester).
12. DUAL SPORTS (MEN AND WOMEN) One hour each semester

Two hours laboratory a week.

A—Beginning

B—Intermediate

C—Advanced

Badminton and Tennis.

13. **INDIVIDUAL SPORTS (MEN AND WOMEN)** One hour each semester  
Two hours laboratory a week.  
A—Beginning  
B—Intermediate  
C—Advanced  
Archery and Golf.
14. **SELF-TESTING ACTIVITIES (WOMEN)** One hour first semester  
Two hours laboratory a week.  
A—Beginning  
B—Intermediate  
C—Advanced  
Tumbling and Apparatus.
15. **RECREATIONAL SPORTS (CO-EDUCATIONAL)** One hour second semester  
Two hours laboratory a week.  
Aerial Darts, Croquet, Desk Tennis, Horseshoes, Paddle Tennis, Shuffleboard and Table Tennis.
16. **BODY MECHANICS (WOMEN)** One hour first semester  
Two hours laboratory a week.  
Fundamental skills used in everyday living, including posture, movement and relaxation techniques.
17. **FOLK GAMES (CO-EDUCATIONAL)** One hour each semester  
Two hours laboratory a week.  
The application of rhythmic techniques that are fundamental to folk games with emphasis on early American and western square dances.
18. **CREATIVE RHYTHMS (WOMEN)** One hour first semester  
Two hours laboratory a week.  
Experience in and study of rhythm as basic to movement.
19. **AQUATICS (MEN AND WOMEN)** Men—One hour first semester  
Two hours laboratory a week. Women—One hour second semester  
A—Beginning  
B—Intermediate  
C—Advanced  
D—Lifesaving (Prerequisite: P. E. 19c or equivalent).  
Skills in swimming, diving, lifesaving and water safety.  
American Red Cross certificates are awarded to those who qualify.
20. **SKILL FUNDAMENTALS (WOMEN—P. E. Majors Only)** One hour each semester  
Two hours laboratory a week.  
Basic and advanced skills of sport and rhythmic activities.

#### PHYSICAL EDUCATION THEORY COURSES:

27. **HEALTH EDUCATION** One hour each semester  
One lecture.  
A lecture course covering practical problems of personal and community health.
28. **RHYTHMIC FUNDAMENTALS** One hour second semester  
One lecture and two laboratory periods.  
Analysis of fundamentals, methods of presentation and importance in development.
29. **FIRST AID** Two hours second semester  
Two lectures.  
First aid treatment of common injuries. American Red Cross Certificates for Standard and Advanced courses are awarded to those who qualify.

30. **PHYSICAL EDUCATION TECHNIQUES (MEN)** Two hours first semester  
Two laboratory periods.  
Group marching, calisthenics and low organization games.
31. **TUMBLING AND APPARATUS (MEN)** One hour second semester  
Two laboratory periods.  
Intensive course in tumbling, apparatus, pyramids and dual stunts.
35. **HISTORY AND PRINCIPLES** Two hours first semester  
Two lectures.  
A brief survey of philosophies and principles in the history of physical education and their relation to modern educational theory.
51. **ORGANIZATION AND ADMINISTRATION** Three hours first semester  
Three lectures.  
Class techniques and procedure in organization, planning and organizing the use of indoor and outdoor facilities.
52. **THE SCHOOL HEALTH PROGRAM** Two hours second semester  
Two lectures.  
Techniques and materials used in conducting an integrated program of health in the public schools.
59. **ATHLETIC TRAINING (MEN)** Two hours first semester  
One lecture and two laboratory periods.  
A study of the types, causes and care given to injuries incurred while participating in sports.
60. **METHODS OF OFFICIATING** Two hours first semester  
One lecture and two laboratory periods.  
Rules of the games, methods and practices of techniques of officiating.
61. **TEACHING FOOTBALL (MEN)** Two hours first semester  
Two lectures and one laboratory period.  
Fundamentals of football, theory and practice. (Offered 1958-59 and alternate years.)
62. **TEACHING BASKETBALL (MEN)** Two hours first semester  
Two lectures and one laboratory period.  
Fundamentals of basketball, theory and practice. (Offered 1957-58 and alternate years.)
63. **TEACHING TRACK (MEN)** Two hours second semester  
Two lectures and one laboratory period.  
Fundamentals of track, field, theory and practice. (Offered 1958-59 and alternate years.)
64. **TEACHING BASEBALL (MEN)** Two hours second semester  
Two lectures and one laboratory period.  
Fundamentals of baseball, theory and practice. (Offered 1957-58 and alternate years.)
65. **TEACHING MINOR SPORTS (MEN)** Two hours first semester  
Two lectures and one laboratory period.  
Fundamentals and techniques of teaching individual and recreational sports, theory and practice. (Offered 1957-58 and alternate years.)
68. **PHYSIOLOGY OF EXERCISE** Two hours first semester  
Two lectures. Prerequisites: Anatomy and Physiology.  
Physiological features of muscular movements. The effect of exercise on the tissues, systems and organs of the body.
70. **CORRECTIVES** Three hours second semester  
Two lectures and one laboratory period.  
Prerequisites: Anatomy and Kinesiology.  
Theory and practice in the use of preventive measures, body mechanics and remedial gymnastics with the knowledge of prescribing exercises for physical and postural defects.

**71-72. COACHING (WOMEN)**

Two hours each semester

One lecture and two laboratory periods.  
(Laboratory periods to be arranged.)

Methods and materials used in teaching girls' team and dual sports. Practical experience in teaching in an actual class situation.

**73. KINESIOLOGY**

Three hours first semester

Three lectures. Prerequisite: Anatomy.

Essentials of body mechanics in relation to play, sports and gymnastic activities.

**76-77. ORGANIZATION AND ADMINISTRATION  
OF INTRA-MURAL SPORTS (MEN)**

One hour each semester

One lecture and one laboratory period.

Theory and practical application of the actual operation of intra-mural activities.

**78. TESTS AND MEASUREMENTS**

Three hours first semester

Three lectures.

The theory of measurement in physical education, the selection and administration of appropriate tests and the interpretation of their results by fundamental statistical procedures.

**82. ELEMENTARY SCHOOL PHYSICAL EDUCATION**

Two hours first semester

Study of special materials and methods used in teaching physical education on the elementary level.

**83. SECONDARY SCHOOL PHYSICAL EDUCATION**

Three hours second semester

Three lectures.

Study of special materials and methods used in conducting a physical education program in the secondary school.

**90, 91. SEMINAR**

Two-Four hours to be arranged

Research by senior students. Credit given depends upon the value of the research project.

**RECREATIONAL LEADERSHIP THEORY COURSES****33. INTRODUCTION TO RECREATION**

Two hours first semester

Two lectures.

Introduction to general fields of private, semi-private and public organizations.

**36. GAMES OF LOW ORGANIZATION FOR RECREATION**

Two hours first semester

Three laboratory periods.

Small group games, simple relays, and social group activities in playgrounds, center and church youthwork.

**39. CAMP CRAFT AND NATURE ACTIVITIES**

Two hours second semester

Three laboratory periods.

Work in nature activities and craft using materials found in camp situations.

**45. COMMUNITY RECREATION PROGRAM**

Two hours second semester

Two lectures.

Special methods of utilizing community facilities and leadership. Work on survey of community. (Offered 1957-58 and alternate years.)

**50. RECREATIONAL LEADERSHIP**

Three hours second semester

Three lectures.

Methods and practical experience in selection, evaluation and adaptation of recreational activities for church, school and community.



67. **CAMP LEADERSHIP** Three hours second semester  
Three lectures.  
Theory and practical experience in organization and leadership of camps.
69. **ADMINISTRATION OF PLAY AND RECREATION** Two hours first semester  
Two lectures.  
Principles, organization and administration of recreation program.
74. **DIRECTED TEACHING** Two hours either semester  
Arranged.
- 80, 81. **SEMINAR IN RECREATION** Two-Four hours either semester  
Arranged.  
Research in recreation problems by senior or graduate students.



## *Division of Letters*

### Purposes of the division.

1. An acquaintance with the development of world civilization through the ages and with our heritage of literature.
2. The acquisition of the skills listed in the several statements of departmental aims which may lead, in cases of those specially gifted, to creative endeavor.
3. The formation of critical standards in harmony with Christian ethics.

## ADVERTISING

Mr. Gray

Mr. Sprague

### Objectives of the department.

Advertising offers a wide variety of activity and a rewarding life's work to young people with creative and constructive talents. It provides the opportunity for the free, liberal use of creative imagination, artistic talent, showmanship, expression and persuasion.

The Whitworth advertising curriculum was planned jointly by advertising professional men and the faculty and has been approved by the Spokane Advertising and Sales Association. It combines the best in a liberal arts education with the specialized knowledge required in today's competitive world and leads to a B.A. degree. It offers to students during the senior year on-the-job training in local advertising offices, such as agencies, newspapers, television and radio stations, outdoor advertising firms, and department stores.

### Major Requirements.

A major in Advertising consists of 30 hours in Advertising courses—12 hours (Adv. 48, 49, 50, and 51) required and 18 hours elective.

### Minor Requirements.

A minor consists of 18 hours in Advertising with courses 48 and 49 required.

The following schedule shows the courses required in Advertising and in other departments.

### FRESHMAN YEAR

First Semester		Second Semester	
	Hours		Hours
English 1, English Composition	3	English 2, English Composition	3
Science (Laboratory) .....	4	Science or Mathematics .....	4
Econ. 1, Principles of Econ. ....	3	Speech 1, Fundamentals of	
Art 5, Basic Drawing & Design	4	Speech .....	2
Sec. Sc. 1, Elementary Typing ..	2*	Econ. 2, Introduction to	
P.E.—Activity .....	1	Business .....	3
		Bible—Elective .....	2
		Sec. Sc. 2 Elementary Typing ..	2*
		P.E.—Activity .....	1
	15-17		

15-17

\*This course will not be required if student passes proficiency test.

### SOPHOMORE YEAR

First Semester		Second Semester	
	Hours		Hours
P.E.—Sophomore Activity .....	1	P.E.—Sophomore Activity .....	1
Adv. 48, Essentials of Marketing	3	Adv. 49, Essentials of	
Econ. 36, Business English .....	2	Advertising .....	3
Engl. 33, Lit. of Western World	3	Speech 2, Speech and	
Bible—Elective .....	2	Discussion .....	2
Soc. 11, Introduction to Soc. ....	3	Journ. 25, Reporting .....	3
Hist. 1, History of Civil. ....	3	History 2, History of Civil. ....	3
		Electives (Any Field) .....	2
		Psych. 21, General Psychology	3
	17		

17

## JUNIOR YEAR

First Semester		Second Semester	
	Hours		Hours
Adv. 50, Advertising Copy .....	3	Adv. 51, Advertising Copy .....	3
Art 41, Commercial Art I .....	2	Adv.—Advertising Electives .....	6
Adv.—Advertising Electives .....	6	Journ. 44, Publicity and	
Bible—Elective .....	2	Public Relations .....	2
Electives (Any Field) .....	3	Econ. 50, Statistics .....	3
		English 34, Lit. of Western	
	16	World .....	3
			17

## SENIOR YEAR

First Semester		Second Semester	
	Hours		Hours
Bible—Elective .....	2	Adv.—Advertising Electives .....	3
Adv.—Advertising Electives .....	3	Electives (Any Field) .....	12-14*
Electives (Any Field) .....	10-12*		15-17
	15-17		

\*Qualified seniors may earn 3 credits each semester for practical experience. (Advertising 85-86.)

- 48. ESSENTIALS OF MARKETING** Three hours first semester  
A basic course dealing with the methods, policies, and institutions involved in the distribution of goods from the producer to the consumer; the marketing activities of manufacturers, wholesalers, and retailers; methods for improving efficiency and lowering distribution costs.
- 49. ESSENTIALS OF ADVERTISING** Three hours second semester  
An overall view of the entire field of advertising. Provides a background for specialized advertising courses and essential information for business executives and others who use advertising media to communicate with the public. It deals with the structure and scope of the advertising industry; preparation of the message—visualization, copy, illustration and color, layout, production and printing, television and radio commercials; and a survey of advertising media, campaign planning, and research practices.
- 50, 51. ADVERTISING COPY** Three hours each semester  
A study of the nature and purpose of advertising copy; essential principles of construction; the use of specific product benefits and selling points; writing effective headlines; using human interest material; preparing television and radio commercials. Practice assignments for various media.
- 52. ADVERTISING PRODUCTION** Three hours second semester  
A study of the steps and techniques used in building the printed advertisement including visualization of the appeal, focusing attention by layout, selection of illustrations and color, the use of various printing processes, typography, paper stock and the preparation of dummies for direct advertising.
- 53. ADVERTISING PSYCHOLOGY AND RESEARCH** Three hours first semester  
A study of the satisfactions which people seek and which prompt them to buy and the psychological techniques used in reaching them through advertising. Emphasis is placed on such psychological concepts as motivation, perception, and sensitivity in relation to advertisements and media.
- 56. DIRECT ADVERTISING** Three hours first semester  
Practice in the preparation of various types of sales literature including letters, booklets, brochures, folders, and catalogues to meet typical sales problems. (Offered 1957-58 and alternate years.)
- 57. TELEVISION AND RADIO ADVERTISING** Three hours first semester  
A study of television and radio as advertising media including network, regional, and spot facilities. Preparation of programs and commercials and tests of their effectiveness, station selection, time buying, and audience measurement techniques. (Offered 1958-59 and alternate years.)

**58. SALESMANSHIP****Three hours second semester**

The essential principles of selling and their practical application to the sale of various products and services including space and time in advertising media. Practice in preparation and delivery of sales presentations. (Offered 1957-58 and alternate years.)

**80. EVALUATION OF MEDIA****Three hours first semester**

A study of the use of advertising media in terms of their functions and effectiveness in achieving specific marketing objectives; their comparative advantages and disadvantages and their suitability for various products and markets.

**81. ADVERTISING CAMPAIGNS****Three hours second semester**

Practice in the planning and development of advertising campaigns for various products and services including the preparation of schedules to fit specific advertising appropriations and objectives.

**85, 86. PRACTICAL EXPERIENCE****Three hours each semester**

Practical experience in advertising work through part-time employment with cooperating advertising agencies, newspapers, television and radio stations, outdoor advertising firms, and retail stores is offered to qualified seniors specializing in Advertising. Credit thus received may not be counted toward the major requirement of 30 hours.

**90. MARKETING RESEARCH****Three hours second semester**

Practical training in the basic principles and techniques of research in marketing including questionnaire design, preliminary testing, interviewing, sampling, tabulation, and report writing. (Offered 1958-59 and alternate years.)



# ENGLISH LANGUAGE AND LITERATURE

Dr. Simpson

Miss Whitten

Mr. Arksey

Mr. La Mott

## Objectives of the department.

1. Competence in the use of the English language.
2. Enjoyment of good literature and discrimination in the choice of reading.
3. A general knowledge of the major epochs of our cultural history.
4. A thorough acquaintance with representative masterworks in each epoch.

## Major Requirements.

A major in English consists of 24 semester hours beyond English 1 and 2. At least 12 hours must be at the upper division level. English 96 and 14 hours of foreign language or other language arts are required. Not later than the beginning of the junior year, the student and his major adviser plan a complete program of course work designed to aid the student in achieving the above objectives.

Supporting courses in such areas as speech, history, philosophy, art, and music are included in the program.

## Minor Requirements.

A minor in English consists of 16 semester hours beyond 1 and 2. Those who plan to teach English in the public schools of Washington should take 33, 34, 41 and 42 or 31 and 32, 86, and 94.

During the orientation period an examination will be given to all entering freshmen. Those who have already reached the objectives for English I will be permitted to substitute other work in English language or literature. A similar examination based on the objectives of English 2 will be given at the end of the first semester. The students who need additional help in language will be assigned to the appropriate portions of English A.

## A. ENGLISH FUNDAMENTALS

Each semester

Emphasis upon fundamentals of grammar and spelling for those who need special aid in meeting the language competence requirements.

## 1, 2. ENGLISH COMPOSITION

Three hours each semester

A review in the mechanics of the English language and more advanced work in reading, written composition, logic in expression, library research, and word study. Collateral readings.

## 5, 6. ENGLISH FOR SPECIAL STUDENTS

Four hours each semester

The purpose of this course is to help students who have learned first a language other than English to become better acquainted with the English language, its vocabulary, idioms, and structure. Others may be assigned to this course upon recommendation of the English staff. This course takes the place of English 1 and 2.

## 7, 8. ENGLISH COMMUNICATION

Four hours each semester

A course designed to give opportunity for progressive development in reading, writing, speaking, and listening. Meets graduation requirements in English composition and public speaking.

## 31, 32. SURVEY OF ENGLISH LITERATURE

Three hours each semester

Although it gives the student a comprehensive view of the whole field of English literature and acquaints him with literary types and movements, this course emphasizes the great writers.

## 33, 34. LITERATURE OF THE WESTERN WORLD

Three hours each semester

Ancient and modern masterpieces of literature and their relationship to our cultural heritage.

## 36. BUSINESS ENGLISH

Two hours either semester

See Economics 36.

## 38. APPRECIATION OF POETRY

Two hours first semester

A study of poems and poetic forms with the aim of increasing appreciation of this type of literature. (Offered 1957-58 and alternate years.)

- 41, 42. **SURVEY OF AMERICAN LITERATURE** Three hours each semester  
A study of the growth of our literature from colonial origins to the present time.
45. **CREATIVE WRITING** Two hours first semester  
A course devoted to the study and use of techniques in such forms as the poem, the essay, the short study, and the drama.
48. **DEVELOPMENT OF THE SHORT STORY** Two hours second semester  
A survey of short stories from their beginning to the present in several countries but especially in America, with the aim of developing an intelligent appreciation of this popular form of fiction. (Offered 1958-59 and alternate years.)
50. **CHAUCEER AND HIS TIME** Three hours second semester  
A study of representative works in medieval literature with special emphasis on the works of Chaucer. (Offered 1958-59 and alternate years.)
51. **LITERATURE OF THE EASTERN WORLD** Three hours second semester  
Representative masterpieces of the major Asiatic civilizations. (Offered 1957-58 and alternate years.)
54. **SHAKESPEARE** Three hours second semester  
A study of the life of Shakespeare, his sonnets, and his plays; special emphasis on the great tragedies.
55. **ADVANCED COMPOSITION** Two hours second semester  
Experience and instruction in effective handling of various types of prose composition.
- 56, 57. **THE AGE OF REASON** Three hours each semester  
A study of the expressions of the Enlightenment spirit in literature, history, science, philosophy, art, and music. Taught by a committee of instructors representing those areas. (Offered 1958-59 and alternate years.)
58. **THE ROMANTIC ERA** Three hours second semester  
Development of English romanticism in the late eighteenth and early nineteenth centuries. Special emphasis upon Blake, Burns, Wordsworth, Coleridge, Byron, Shelley, and Keats. (Offered 1958-59 and alternate years.)
59. **THE VICTORIAN AGE** Three hours first semester  
The principal British poetry and non-fiction prose of the period from 1830 to about 1890. The relationship to American and Continental literature of that time is stressed. (Offered 1957-58 and alternate years.)
62. **THE BIBLE AS LITERATURE** Two hours second semester  
A study of the Bible in English translation with special emphasis upon an appreciation of its literary qualities, and a brief survey of the influence of the King James Version upon subsequent literature in English.  
Also offered as Bible 62. (Offered 1957-58 and alternate years.)
63. **THE BEGINNINGS OF THE NOVEL** Three hours first semester  
An historical and critical study of the origins of prose fiction and its development to the time of the Bronte sisters. (Offered 1958-59 and alternate years.)
64. **THE RISE OF REALISM IN THE NOVEL** Three hours second semester  
The novel from Eliot to Conrad. American and Continental novels will be included. (Offered 1958-59 and alternate years.)
65. **THE TWENTIETH-CENTURY NOVEL** Three hours first semester  
A critical analysis of representative English, Continental and American novels from 1900 to the present day. (Offered 1957-58 and alternate years.)
70. **CONTEMPORARY AMERICAN FICTION** Three hours second semester  
Novels and short stories beginning with the expatriate movement. (Offered 1957-58 and alternate years.)

- 71, 72. THE RENAISSANCE** Three hours each semester  
A study of the expressions of the Renaissance spirit in literature, history, science, philosophy, art and music. Taught by a committee of instructors representing those areas. Also offered as History 71, 72. (Offered 1957-58 and alternate years.)
- 73. TWENTIETH-CENTURY POETRY** Three hours second semester  
Investigation of the ideas and methods of leading British and American poets from 1900 to the present. (Offered 1957-58 and alternate years.)
- 74. GREAT CHRISTIAN LITERATURE** Two hours second semester  
A study of masterpieces from the early Christian era to the present time, not including the Bible. The history of the Christian tradition in literature is studied and certain selections are read. (Offered 1957-58 and alternate years.)
- 86. DEVELOPMENT AND STRUCTURE OF MODERN ENGLISH** Two hours second semester  
The growth of our language and its current form. A study of the changes in the spelling and meaning of words and of grammatical usage, with some insight into the laws governing such changes. Highly recommended for prospective teachers of English. (Offered 1957-58 and alternate years.)
- 94. SPECIAL METHODS OF TEACHING ENGLISH IN SECONDARY SCHOOLS** Two hours first semester  
Methods of teaching grammar, rhetoric and literature will be presented. Highly recommended for prospective teachers of English.
- 96. ENGLISH SEMINAR** Two hours second semester  
A systematic coordination of the materials in the major program and an evaluation of the student's success in reaching his objectives. Required of all English majors in the senior year.

## GREEK

Mr. Yates

### Objectives of the department:

(1) To provide the student with a thorough knowledge of the Grammar and Syntax of New Testament Greek and thus (2) to facilitate the reading of the New Testament in the original.

### Minor Requirements:

A minor in Greek consists of 16 hours.

- 31, 32. NEW TESTAMENT GREEK** Four hours each semester  
Grammar. Emphasis is on forms. Vocabulary.
- 53. MARK** Three hours first semester  
Vocabulary. Continuation of Grammar.
- 57. GALATIANS** Three hours second semester  
Vocabulary. Continuation of Grammar.
- 90, 91. SELECTED READINGS** One hour each semester  
Translation of various books of the New Testament.

## JOURNALISM

Mr. Gray

### Objectives of the department.

Offerings of the journalism department and recommended curricula in liberal arts will provide journalism majors and minors with a broad, liberal training. The sequence of study will prepare students to interpret and report the pattern of human affairs and to produce the clear, readable prose necessary to help solve the communications problems of the modern world.

Several of the journalism courses (Introduction to Journalism, Reporting, Editing, Introduction to Religious Writing, Publicity and Public Relations, and Writing for Publication I and II) are valuable for non-journalism majors. Communications techniques learned in these courses will help non-journalism majors to enlarge their service to their own professional fields.

### Major Requirements.

Subject to approval of the journalism faculty, the journalism major may choose that sequence of courses (basic journalism plus pertinent courses in other fields, particularly liberal arts) which will meet the needs of his vocational objective, whether that be (1) general newspaper work, (2) magazine writing and editing, (3) public relations, (4) religious journalism, or (5) teaching journalism. Each major will be required to complete 26 semester hours of journalism. The following courses are required: Journalism 15, 25, 42, 47, 54, 57, 60, 70, and 81.

Miscellaneous requirements for the journalism major will include a course in photography, a course in typing (or successful completion of a validating test in the subject), and at least 22 semester hours in social sciences taken from at least four fields.

Study of a foreign language is strongly recommended.

During the senior year the qualified journalism student may elect to receive on-the-job experience with a commercial publication or with a radio or television station.

A journalism major must maintain a 2.5 point average in journalism.

### Minor Requirements.

To minor in journalism the student must complete 16 semester hours in the subject. Journalism 15, 25, 42, 54, and 81 are required.

#### 15. INTRODUCTION TO JOURNALISM

Three hours first semester

An explanation of what journalism is and study of its importance and influence. Introduction to journalistic style. The course will include a vocational survey of the field.

#### 25. REPORTING

Three hours second semester

Lectures, practice and group discussion of the work of the reporter. Principles of news gathering and news writing.

#### 42. EDITING

Three hours first semester

Instruction and practice in editing copy, writing headlines, make-up, evaluating news, etc. Prerequisite: Journalism 25.

#### 44. PUBLICITY AND PUBLIC RELATIONS

Two hours

Principles and practices of publicity and public relations in business, industry, government, and social agencies. Analysis of public opinion and propaganda. Use of surveys, publicity, advertising, and special events in public relations.

#### 45a, b. APPLIED JOURNALISM

One hour each semester

Staff members of THE WHITWORTHIAN (45a) and of THE NATSIHI (45b) will receive, if their work is satisfactory, not more than one credit each semester.



**47. HISTORY AND INFLUENCE OF JOURNALISM**

Three hours second semester

A study of the evolution and influence of newspapers and magazines, with special reference to problems of present-day journalism. Study of relation of newspapers and magazines to public opinion, government, and society. (Offered 1958-59 and alternate years.)

**48. INTRODUCTION TO RELIGIOUS WRITING** Three hours second semester

The course will emphasize instruction and practice in writing techniques needed by church workers, both lay and professional. The following subjects will be covered: religious publicity for newspapers and magazines; production of church publications; and writing of church letters, annual reports, and devotional materials.

**54. ADVANCED JOURNALISM**

Three hours second semester

Advanced problems and projects in news reporting and editing with special emphasis given to public affairs journalism. (Offered 1957-58 and alternate years.)

**57. STATE AND FEDERAL COURTS**

Three hours second semester

The course will include a study of the following: history of courts and legal rights, trials and trial procedure, civil and criminal law principles, and structure of state and federal court systems. Political Science credit will be given for this course. (Offered 1958-59 and alternate years.)

**60. EDITORIAL WRITING**

Two hours first semester

The theory and practice of editorial writing; analysis of editorial policy; interpretation of news. (Offered in 1958-59 and alternate years.)

**68. TEACHING JOURNALISM AND SUPERVISING PUBLICATIONS**

Three hours first semester

Lectures on teaching journalism courses and supervising publications on high school and college levels. (Offered 1957-58 and alternate years.)

**70. LAW OF PRESS, RADIO, AND TELEVISION**

Three hours first semester

Lectures and readings in libel and slander, right of privacy, copyright, and other legal phases pertaining to media of communication. (Offered 1958-59 and alternate years.)

**75. PRACTICAL JOURNALISM EXPERIENCE**

Two to four hours

Limited to qualified journalism seniors who may elect to receive on-the-job experience with a newspaper, magazine, radio, or television station.

**81. WRITING FOR PUBLICATION I**

Three hours first semester

Lectures and practice in preparing feature articles for newspapers and magazines. Each student in class will submit articles as free lance efforts. Students interested in religious journalism will be assigned special projects in that field. (Offered 1957-58 and alternate years.)

**82. WRITING FOR PUBLICATION II**

Two or three hours second semester

An advanced feature writing course. Prerequisite: Journalism 81. (Offered 1957-58 and alternate years.)

**90. SEMINAR IN JOURNALISM**

One or two hours

Opportunity for advanced students to do journalistic research. Work to be done in consultation with the head of the journalism department. Students must have at least senior standing.

## LIBRARY SCIENCE

Mrs. French

### 70. CATALOGING AND CLASSIFICATION

Three hours summer session on demand

An introductory course with special application to the high school library. The laboratory work provides for practical experience in cataloging a wide variety of books. (For seniors and fifth year students.)

### 71. ORGANIZATION AND ADMINISTRATION

Two hours summer session on demand

A course designed to give a thorough knowledge of the organization and administration of the high school library. It includes a study of the function of the high school library, cooperation with departments, business practice, budgets, records, charging, mending, accessioning, equipment, library staff, attendance and programming, circulation and publicity. Laboratory work in the college library. (For seniors and fifth year students.)

## MODERN LANGUAGES

Dr. Henning

Miss Pope

### Objectives of the department.

The general aim of the study of modern foreign languages embraces both practical and cultural considerations. Modern languages are of immediate practical use to students preparing for careers in government service, foreign trade, teaching, missionary service, and for those interested in international relations and travel. Language-centered positions open include translator, interpreter, secretary with various government agencies, clerk with foreign branches of petroleum, shipping, and mineral companies and banks. Students in other college departments will find in foreign scientific literature a valuable source for information and research work. The skill even to read a foreign language provides a new and direct approach to the cultural values of other nations through such mediums as literature and travel.

### Major and Minor Requirements.

A major or minor is offered in Spanish and in French, a minor in German. A major consists of 26 semester hours in one language, including courses 1-2. A minor consists of 18 hours in one language, including courses 1-2. A student who presents 2 high school units in the same language and is thereby admitted to course 3 will complete a major of 22 hours or a minor of 14 hours. Students who do not plan to teach a language may select a major combining two languages. In every case the major must include at least 10 hours of upper division courses and the minor 4 hours.

**Prerequisites:** Students with one year of high school language or one semester of college language enroll the second semester in course 2; students with two years of high school language or one year of college language enroll in course 3. Other special cases must take a placement test. Courses 1-4 or the equivalent are prerequisite for all upper division courses.

**THE LANGUAGE LABORATORY:** These facilities are provided for the student as a further aid toward progress and mastery of the language. Here the student may check his faults and progress by means of records and tapes and by taped reproductions of his own voice. While these audio aids are used in the classroom to some extent, every language student should plan to make use of these facilities in supplementary study. Students whose pronunciation or progress is unsatisfactory are required to spend up to one hour per week in the Laboratory.

### FRENCH

#### 1-2. ELEMENTARY FRENCH

Four hours each semester

Fundamentals of pronunciation and grammar, vocabulary building, composition, reading of graded texts, conversation in French from the start.

- 3, 4. INTERMEDIATE FRENCH** **Three hours each semester**  
Thorough grammar review with more advanced work in conversation and composition, and both intensive and rapid reading of texts. Special attention will be given to those needing foreign language for medicine or science.
- 51, 52. SURVEY OF FRENCH LITERATURE** **Two hours each semester**  
Historical development of French Literature, with readings and discussion of representative masterpieces from the Middle Ages to the 20th century. Required for major or minor.
- 61, 62. ADVANCED FRENCH COMPOSITION AND CONVERSATION** **Two hours each semester**  
Based on short texts or vocabularies of the different areas of modern life in order to help the student to more fluent expression in spoken and written French. Required for major.
- 71. MODERN FRENCH NOVEL** **Two to four hours**  
The novel since Romanticism, including the schools of Realism, Naturalism, and the contemporary period.
- 72. MODERN FRENCH DRAMA** **Two to four hours**  
The drama since Romanticism, including the various schools of the 19th and 20th centuries.
- 81, 81b. DIRECTED FRENCH READING** **Two to four hours**  
Reading and reports of works selected in one field of special interest: poetry, short story, essay, or prose.

#### GERMAN

- 1-2. ELEMENTARY GERMAN** **Four hours each semester**  
German phonetics, essentials of grammar, acquisition of vocabulary, elementary composition. Conversation from the very beginning, later on reading of graded texts.
- 3, 4. INTERMEDIATE GERMAN** **Three hours each semester**  
An intensive study of several modern short stories and selected poetry. Grammar review, composition and conversation. Course 4 includes also a general introduction to scientific German.
- 51, 52. SURVEY OF GERMAN LITERATURE** **Two hours each semester**  
Historical development of German Literature, with readings and discussion of representative masterpieces from the Middle Ages to the 20th century. Required for minor.
- 81, 81b. DIRECTED GERMAN READING** **Two to four hours**  
Reading and reports of works selected in one field of special interest: novel, short story, poetry, essay, drama.

#### SPANISH

- 1-2. ELEMENTARY SPANISH** **Four hours each semester**  
Fundamentals of pronunciation and grammar, vocabulary building, composition, reading of graded texts, conversation in Spanish from the start.
- 3, 4. INTERMEDIATE SPANISH** **Three hours each semester**  
Thorough grammar review and more advanced work in conversation and composition, with both intensive and rapid reading of texts.
- 51, 52. SURVEY OF SPANISH LITERATURE** **Two hours each semester**  
Historical development of Spanish Literature, with readings and discussion of representative masterpieces from the Middle Ages to the 20th century. Required for major or minor. This course alternates with 61, 62.

**61, 62. ADVANCED SPANISH COMPOSITION  
AND CONVERSATION****Two hours each semester**

Based on vocabularies and texts dealing with the different areas of modern life to help the student to more fluent expression in spoken and written Spanish. Required for major.

**71. MODERN SPANISH NOVEL****Two to four hours**

The novel since Romanticism with emphasis upon regionalism.

**72. MODERN SPANISH DRAMA****Two to four hours**

Spanish stage since Romanticism with emphasis upon social drama.

**81. SPANISH-AMERICAN LITERATURE****Two to four hours**

Readings from outstanding 19th and 20th century authors of the Spanish-American countries. Discussion on historical and literary development.

## **PHILOSOPHY**

**Mr. Yates****Objectives of the department.**

Philosophy attempts to answer questions pertaining to man's relation to God, the universe and his fellowman. By a critical examination of such efforts through the centuries the aim of this department is to provide for the student a working philosophy of life.

**Minor Requirements.**

A minor consists of 18 hours.

**31. INTRODUCTION TO PHILOSOPHY****Three hours first semester**

An introduction to the various systems. This course is a prerequisite to all other courses in Philosophy.

**55. HISTORY OF ANCIENT PHILOSOPHY****Three hours second semester**

From Thales to Ockam.

**56. HISTORY OF MODERN PHILOSOPHY****Three hours first semester**

From Descartes to Dewey. Prerequisite: Philosophy 55.

**58. ETHICS****Three hours second semester**

A comparative study of the classical theories. (Offered 1958-59.)

**60. LOGIC****Three hours second semester**

Formal deductive reasoning. (Offered 1959-60.)

**88. PHILOSOPHY OF RELIGION****Three hours second semester**

A general survey of the field with emphasis on the Christian interpretation of life and the universe. Prerequisite: Philosophy 31. (Offered 1957-58.)

**90, 91. DIRECTED READINGS AND RESEARCH****One-three hours each semester**

Research by senior students. Credit given depends upon the quantity and quality of work done in the investigation of philosophical problems.

**180. PHILOSOPHY OF EDUCATION****Three semester hours**

For course description see Education 180. Given on demand.



## RELIGION

Mr. Dilworth

Miss Jenkins

Miss Smith

### Objectives of the department.

The aim of the Department of Religion is to provide each student with an opportunity to achieve a general understanding of the Bible and of evangelical Protestant doctrine and to equip him for mature Christian living. The Department seeks, also, to provide those preliminary disciplines which would prepare the student for graduate training in the field of Church vocations.

### Requirements for Graduation.

Eight semester hours are required for graduation, of which two should be taken each year. Two of the hours may be taken in Group II, Christian Education, or in Group III, Related Courses, provided that four hours of Bible Literature have been completed. Freshmen are expected to take Religion 2 or 12 during their first year. Qualified freshmen who pass successfully the Basic Bible Examination may elect Religion 31, 32, or 43 instead of Religion 2 or 12. Religion 75 is recommended for all upper division students.

### Major Requirements in Bible.

A major in Bible Literature consists of 26 semester hours beyond the 8 required for graduation. The accompanying minor may not be in Christian Education or Greek. Required courses are:

#### Group I

Religion 2, 31, 32, 43, 49 or 55 or 56, 75, 89.

#### Group II

Religion 45.

#### Group III

Religion 54 and 77.

Additional requirements are Foreign Language, a semester of literature, Philosophy 31, and History, either courses 1, 2, and 72, or 53, 54, and 72.

### Minor Requirements in Bible.

A minor in Bible Literature consists of 14 semester hours beyond the 8 required for graduation, 5 hours of which may be in Groups II and III. Required courses are Religion 2, 31, 32, 43 and 75.

### Major Requirements in Christian Education.

A major in Christian Education offers training toward professional or volunteer service in churches, schools, and on national or foreign mission fields. It or its equivalent is a prerequisite for candidacy for a Master of Education degree in the field of Christian Education. The major consists of 24 semester hours beyond the 8 required for graduation, 16 of which must be in Group II. Required courses are:

#### Group I

Religion 31, 32, 43, 75.

#### Group II

Religion 15, 24, 40, 44, 71, 80.

#### Group III

Religion 77.

Other required courses are: Foreign Language, Psychology 32, a semester of Literature, and Music 77. In addition, two of the following options are required:

- (1) Religious Drama: Speech 3, 30 and 31.
- (2) Recreational Leadership: Recreational Leadership 36 or 39, 45 or 67, and 50.
- (3) Secretarial Science: Sufficient course work in Elementary Typing to meet the minimum standards, and Secretarial Science 5-6 or its equivalent determined by a proficiency test taken during the first year of residence.
- (4) Sacred Music: A minor in Sacred Music is recommended and will be accepted as one of the options.

**Minor Requirements in Christian Education.**

A minor in Christian Education consists of 14 semester hours beyond the 8 required for graduation, 5 of which may be in Groups I and III. Required courses are: Religion 15, 24, 71, 80.

Graduate work is offered in Christian Education leading to the Master of Education degree. See special brochure.

**GROUP I, BIBLE LITERATURE**

2. **THE GOSPEL ACCORDING TO MARK** Two hours either semester  
An inductive study of the Gospel of Mark designed to introduce the student to method in Bible study.
12. **INTRODUCTION TO THE NEW TESTAMENT** Two hours either semester  
A survey of the background and contents of the major books of the new Testament.
31. **INTRODUCTION TO THE OLD TESTAMENT** Two hours either semester  
A survey of the historical background and contents of the major books of the Old Testament.
32. **LIFE AND TEACHINGS OF JESUS** Three hours first semester  
A study of the Synoptic Gospels with emphasis on the timeless teachings of Jesus.
43. **THE NEW TESTAMENT CHURCH** Three hours second semester  
A study of the development of the Christian Church based on the Acts and the Epistles of Paul.
49. **EPISTLE TO THE HEBREWS** Two hours first semester  
A study of the New Testament book which is a basic bridge between the Old and New Testaments, emphasizing Christ's complete superiority to the provisions of the Old Testament. Prerequisite Religion 31. (Offered 1958-1959.)
55. **THE CORINTHIAN LETTERS** Two hours second semester  
An expository study of Paul's letters to the church at Corinth and their application to issues in the Church today. (Offered 1958-1959.)
56. **ROMANS** Two hours first semester  
An analytical study of the Epistle to the Romans and its logical presentation of basic Christian doctrines. (Offered 1957-1958.)
66. **JEREMIAH** Two hours first semester  
A detailed study of the book of Jeremiah, the prophet, his world, and his message for our day. (Offered 1957-1958.)
75. **FUNDAMENTALS OF THE CHRISTIAN FAITH** Three hours second semester  
A systematic study of the basic doctrines of Protestant Christianity.
89. **PROPHETS FOR TODAY** Three hours first semester  
A study of the Hebrew prophets with special emphasis on their message for our day. (Offered 1958-1959.)
90. **RELIGION SEMINAR** Hours to be arranged  
A course in individual research with personal conferences with the instructor. Open to seniors and graduate students only.

**GROUP II, CHRISTIAN EDUCATION**

15. **INTRODUCTION TO CHRISTIAN EDUCATION** Two hours first semester  
A general survey of the field of Christian Education, its historical development, basic principles, aims, and objectives.
24. **METHODS OF CHRISTIAN EDUCATION** Three hours second semester  
A systematic study of modern educational methods applied to the field of Christian Education, with supervised field work.

40. **CHRISTIAN EDUCATION OF CHILDREN** Two hours first semester  
A study of the basic needs, interests, capacities, and problems of children, and the development of an adequate program for the local church at each age level. Prerequisite Psychology 32. (Offered 1957-1958.)
44. **YOUTH AND THE CHURCH** Two hours second semester  
A study of the church program designed to meet the needs of adolescents. Prerequisite Psychology 32. (Offered 1957-1958.)
45. **USE OF THE BIBLE IN CHRISTIAN EDUCATION** Two hours second semester  
A practical course in Bible study methods and teaching procedures applied to each age level, for use in the local Church School. (Offered 1957-1958.)
63. **CHRISTIAN EDUCATION OF ADULTS** Two hours second semester  
A study of the needs, problems, program and methods of adult education in the local church. (Offered 1958-1959.)
71. **ORGANIZATION AND ADMINISTRATION** Three hours second semester  
A survey of the current practices in organization and administration of the educational program of the local church. (Offered 1958-1959.)
80. **FIELD PROBLEMS IN CHRISTIAN EDUCATION** Three hours first semester  
A seminar course dealing with specific problems in Christian Education and supervised work in the student's chosen field. (Seniors only.)
83. **WORSHIP IN CHRISTIAN EDUCATION** Two hours first semester  
A study of the history, psychology, and meaning of worship with emphasis on aids to guiding worship experiences for all age levels. The course includes field trips to churches representing various religious traditions. (Offered 1958-1959.)
91. **CHRISTIAN EDUCATION SEMINAR** Hours to be arranged  
A course in individual research with personal conferences with instructor. Open to seniors and graduates.

### GROUP III, RELATED COURSES IN RELIGION

54. **HISTORICAL AND GEOGRAPHICAL BACKGROUND OF THE BIBLE.** Two hours second semester  
A course designed to give an understanding of the physical and historical features of the lands which were the setting for the Bible. (Offered 1958-1959.)
62. **THE BIBLE AS LITERATURE** Two hours second semester  
A study of the Bible in English translation with emphasis upon an appreciation of its literary qualities, and a brief survey of the influence of the King James Version upon subsequent literature in English. (Offered 1957-1958.)
72. **NON-CHRISTIAN RELIGIONS** Two hours first semester  
A study of the major non-Christian faiths of the world and their relationship to Christianity. (Offered 1957-1958.)
73. **SURVEY OF CHURCH HISTORY** Two hours first semester  
A survey of the historical development of the Christian Church from the time of Christ until the present, related to contemporary church life. (Offered 1958-1959.)
74. **HISTORY OF THE AMERICAN CHURCH** Two hours second semester  
A survey of the development of Christianity in America, including the rise of denominations, sects, cults, and the ecumenical movement, with emphasis upon the history and the organization of the Presbyterian Church. (Offered 1958-1959.)
77. **PSYCHOLOGY OF RELIGION** Two hours first semester  
A systematic investigation of religion and the application of psychological phenomena to religious experiences. Includes a study of the root and nature of religion, conversion, prayer, etc. (Offered 1958-1959.)
88. **PHILOSOPHY OF RELIGION** Three hours first semester  
See course description, Philosophy 88. (Offered 1957-1958.)

## SUGGESTED MAJOR FOR PRE-MINISTERIAL STUDENTS

Students coming to Whitworth who are expecting to proceed to seminary studies after graduation are urged to major in English, History, or Sociology, but to obtain as wide a liberal arts education as possible. The following schedule of courses is suggested as a general guide. This outline for pre-seminary students follows the program suggested by the American Association of Theological Schools. It is recommended that electives be chosen in the fields of Journalism, Music, Art, and etc., depending on the students' particular interests.

## FRESHMAN YEAR

First Semester		Second Semester	
	Hours		Hours
Composition .....	3	Composition .....	3
General Psychology .....	3	Fundamentals of Speech .....	2
Science or Math .....	4	Science or Math .....	4
Bible .....	2	Health Education .....	1
*History or Sociology .....	3	*History or Sociology .....	3
Physical Education .....	1	Electives .....	2
	16	Physical Education .....	1
			16

## SOPHOMORE YEAR

First Semester		Second Semester	
	Hours		Hours
Literature .....	3	Literature .....	3
Bible .....	2	Philosophy .....	2
Literary Interp. (or Debate) ..	3	Song leading .....	2
*Sociology or History .....	3	*Sociology or History .....	3
**Electives or Minor .....	4	**Electives or Minor .....	4
Physical Education .....	1	Physical Education .....	1
	16		16

## JUNIOR YEAR

First Semester		Second Semester	
	Hours		Hours
Major .....	3	Major .....	3
Greek .....	4	Greek .....	4
Philosophy 55 .....	3	Philosophy 56 .....	3
Christian Education .....	3	Advanced Composition .....	2
Bible .....	2	Counseling .....	3
	15		15

## SENIOR YEAR

First Semester		Second Semester	
	Hours		Hours
Greek .....	3	Greek .....	3
Bible .....	2	Major .....	6
Major .....	6	Electives or Minor .....	6
Electives or Minor .....	4		
	15		15

\*If History was chosen the first year Sociology should be chosen the second year—If Sociology was chosen the first year History should be chosen the second year.

\*\*For pre-ministerial students contemplating graduate study beyond seminary two years in German or French would be most desirable.



## SPEECH AND DRAMA

Mr. Waltz

Mr. Cleath

### Objectives of the department.

The purpose of the Speech and Drama department is to give the student basic training in organizing and communicating ideas that will make him a more effective individual in social and business situations; to provide cultural training in the appreciation of drama and literature; and to develop the ability to effectively interpret literature and plays.

### Major and Minor Requirements.

A major in speech and drama consists of at least thirty semester hours and a minor of at least sixteen semester hours. The courses will be selected after consultation with the speech department.

Foreign language is strongly recommended for all majors.

### 1. FUNDAMENTALS OF SPEECH

Two hours each semester

A course designed to give the student development in speaking personality and powers of communication, with the aim of making the student a more effective unit in the social order. Required of each student in the freshman or sophomore year unless he has had a speech course and can demonstrate to the satisfaction of the instructor his ability to speak effectively before a group.

### 2. SPEECH AND DISCUSSION

Two hours each semester

This course is designed to follow Course 1 in Fundamentals of Speech. Parliamentary procedure, public discussion, impromptu, and extemporaneous speaking are studied and practiced with the purpose of giving the student a better understanding of and further experience in the art of expressing his ideas most effectively in social, business, and public life.

### 3. LITERARY INTERPRETATION

Three hours each semester

The aims of this course are to aid the students in comprehending the intellectual and emotional meaning of the printed page as intended by the author, and to give instruction and practice in the techniques that will enable the student to convey that meaning to others by the use of vocal and physical expression.

### 4. LITERARY INTERPRETATION

Two hours each semester

This course gives continuation of the work in Literary Interpretation 3, including the more careful study of dialects and some of the more difficult types of interpretative reading.

### 5. VOICE AND DICTION

Two hours second semester

A study of the mechanics of good voice and speech production and practical application and training in these techniques.

### 7, 8. ARGUMENTATION AND DEBATE

Two hours first and second semester

A course for beginning debaters in the theory and practice of debating. Practice in finding material, construction of main arguments, rebuttals, and delivery is stressed. Attention is given to the national debate question. Open to beginners, but previous speech experience is desirable.

### 10, 11. STAGECRAFT AND LIGHTING

One to two hours each semester

The principles and practice of designing and building scenery and of stage lighting compose the basis of this course. Three or more hours of class and laboratory per week are required.





Homecoming Queen and Princesses



WARREN HALL GIRLS

1972-1973 YEARBOOK

Warren Hall Girls

- 13, 14. MAKE-UP AND COSTUME** One to two hours each semester  
A study of the theory and practice of make-up for stage and the design and construction of costumes. Members of the class will assist in all college productions where make-up and costumes are needed. Three or more hours of class and laboratory work per week.
- 21. INTRODUCTION TO ACTING** Three hours each semester  
A study and practice of the principles of acting including vocal and bodily expression and projection, pantomime, character portrayal, stage positions and movement, and the techniques of creating and sustaining a role.
- 22. PRINCIPLES OF ACTING** Three hours each semester  
The work in this class will be concerned with the application of the techniques of course 21 through the actual experience of the preparation of and participation in various plays. Time for rehearsals outside of the regular class periods will be required. Course 21 is a prerequisite.
- 30. INTRODUCTION TO RELIGIOUS DRAMA** Two hours first semester  
The intent of this course is to give a careful study of the use of dramatic forms in religious worship and religious education work, includes consideration of objectives, sources of material, various dramatic forms, procedures for different situations, and some experimental work.
- 31. RELIGIOUS DRAMA PRODUCTION** Two hours second semester  
Students who have completed course 30 may take this course in experimental and production procedures in Religious Drama. The presentation of religious plays and dramatic programs both on and off the campus will be included in this work.
- 33. ADVANCED PUBLIC SPEAKING** Two hours second semester  
A course in the more advanced forms of speech composition and presentation. Study in the selection, organization, and delivery of speech material will be stressed.
- 35. FUNDAMENTALS OF RADIO AND TELEVISION** Two hours first semester  
A survey of radio and television broadcasting. Background material in radio and television transmission, discussion of acoustical problems, introductory information about various broadcasting systems, and the legal control of broadcasting will be presented. The student will visit local stations. Practice in microphone technique will be incorporated. Prerequisite 1. (Speech 3 is advised.)
- 36. RADIO SPEAKING** Two hours second semester  
Application of the knowledge and techniques gained in Speech 35. The student writes and delivers radio talks and speeches. Assignments are arranged in order of increasing length and difficulty. Future ministers and business men can utilize the course in preparation for possible radio broadcasting in their careers. Prerequisite 35.
- 40, 41. ADVANCED DEBATE** Two hours each semester  
Students who have had courses 7 and 8 may secure further credit in debate by meeting regularly with the debate squad and participating in the debates assigned by the instructor. The national and western debate topics will be the basis of the work. Additional credits may be earned for a third year's work.
- 53, 54. ADVANCED LITERARY INTERPRETATION** Two hours each semester  
A study of more advanced work in interpretation and the development of repertoire for advanced speech students. Prerequisites 3 and 4.
- 55, 56. SURVEY OF WORLD DRAMA** Three hours each semester  
A course designed to provide a foundation for the understanding of and an interest in drama as literature. The reading will consist of selected great plays from Aeschylus to the present. (Offered 1957-58 and alternate years.)

**57. SPEECH CORRECTION**

Two hours summer

A survey of the nature, causes and principles of treatment of speech disorders with emphasis upon the educational and clinical aspects of the various problems covered. Recommended for education majors.

**58, 59. PLAY DIRECTION**

Three hours each semester

The purpose of this course is to gain a basic knowledge of the best procedures in directing plays through study of authorities and by application of this knowledge in the selection, casting, directing and presenting of workshop plays. It is designed for those who may be called on to take charge of such work in school, church, or community. Courses 21 and 22 are prerequisites.

**90, 91. PROJECTS IN SPEECH AND DRAMA**

Given on demand

For students who are majoring or minoring in speech. Students will be given opportunity to work on individual projects in which they have especial interest. Hours and credits are to be arranged with the instructor.

**PRIVATE LESSONS**

Individual instruction in interpretation and speech may be arranged with the instructor. Fee: \$50 per semester. One hour credit is given for one thirty-minute lesson a week per semester. Students who present a senior recital are expected to take private lessons.





## *Division of the Sciences*

### Purposes of the division.

1. To integrate the work of the science departments.
2. To acquaint the student with the scientific method as a procedure for arriving at truth, with special emphasis upon its application in the various fields of this division.
3. To prepare the student to take his place as a member of a cultured society.

### BASIC SCIENCE MAJOR

In order to satisfy the requirement of many students who desire a broader education than that allowed by departmental majors, the major in basic sciences has been planned. This requires ten semester hours in each of the departments of Biology, Chemistry, and Physics, with ten hours of upper division credit in one of those fields. Modern Language and Mathematics are recommended. A minor must be chosen from some other division than that of the Sciences.

## BIOLOGY

Dr. Alder

Dr. Thomson

Mrs. Henefer

### Objectives of the department.

1. To make students fully appreciative of the beauty and uniqueness of organization in the plant and animal world.
2. To prepare students to teach the biological sciences in the grades and high school.
3. To prepare students for graduate work in the field of biology.
4. To prepare students to enter a variety of professional fields—medicine, dentistry, medical technology, nursing education, osteopathy, chiropractic, optometry, and others.

### Major Requirements.

A major in Biology consists of 28 semester hours selected from Biology 1, 2, 3, 11, 12, 20, 21, 50, 52, 55, 61, 63, 98, and 99. Geology 30 may also be used. A major also requires 10 semester hours of General Inorganic Chemistry. Courses in organic chemistry, General Physics, and a year of mathematics are desirable. A wide choice in biology courses is permitted to fit the needs in the different fields of interest. For those going out to teach biology in high schools we recommend Biology 2, 3, 11, 20, 63, 55, 98, 99, and Geology 30.

### Minor Requirements.

A minor consists of 16 semester hours with a wide range of selection from the courses offered. Majors in Nursing Education will select their minor from Biology 12, 20, 21, 52, 55, 61, 63 or by permission other courses may be substituted.

## CURRICULA OF PRE-MEDICAL STUDIES

Curricula offered allow for preparation for medical and dental schools, for schools of osteopathy and chiropractic, for the B.S. in nursing for graduate nurses from an accredited hospital, and a B.S. in connection with training in Technology. The courses recommended will satisfy the requirements of most professional schools.

Schools of medicine, osteopathy, and chiropractic require only three years of preparation but a four-year plan is recommended because it allows more freedom in selection of electives of a cultural value as well as the basic science requirements.

The major selected by pre-medical students is optional, depending on the interests of the student. The usual majors chosen are Biology, Chemistry, or Basic Sciences. Since about  $\frac{1}{3}$  of the medical colleges require a reading knowledge of one modern language it is recommended that two years of a modern language be included in the curriculum.

A student who, during his three years in the pre-medical curriculum, meets all the institutional requirements for graduation except completion of a major and the fourth year of residence may meet the requirements for a B.S. in Pre-medical Studies in the first year at the medical school.



**DENTISTRY**

Pre-dental students should follow the Curricula of Pre-Medical Studies with the exception of quantitative chemistry and a language. It is possible to be admitted to a school of dentistry with only two years of preparation but it is advisable to take four years. Most of the students entering a school of dentistry have had at least three years of preparation.

**MEDICAL TECHNOLOGY**

Students may become qualified in two years to enter a School of Technology and after spending one year in a technological school they will be eligible to take examinations for becoming a registered Medical Technologist. Whitworth has affiliation with the Medical Technology schools of the Deaconess and St. Luke's Hospitals whereby if a student spends three years at Whitworth before entering the school of technology he may meet the requirements for certificate issued by the Registry of Medical Technologists and also receive a B.S. degree.

**CURRICULA OF PRE-MEDICAL STUDIES**

Fall Semester	FRESHMAN YEAR	Spring Semester	Hours
	Hours		Hours
English Composition .....	3	English Composition .....	3
Algebra .....	2	Algebra .....	2
Biology 11 .....	4	Biology 12 .....	4
Chemistry 1 .....	5	Chemistry 2 .....	5
Speech .....	2	Bible .....	2
Physical Education .....	1	Physical Education .....	1
	17		17

**SOPHOMORE YEAR**

Fall Semester	Hours	Spring Semester	Hours
Comparative Anatomy .....	4	History .....	3
Trigonometry .....	3	General Psychology .....	3
Economics .....	3	Quantitative Analysis .....	4
Sociology 11 or 12 .....	3	Bible .....	2
Physical Education .....	1	Physical Education .....	1
Electives .....	2	Electives .....	3
Health Education .....	1		16
	17		

**JUNIOR YEAR**

Fall Semester	Hours	Spring Semester	Hours
Language .....	4	Language .....	4
Physics .....	5	Physics .....	5
Embryology .....	4	Abnormal Psychology .....	3
Bible .....	2	Recommended Electives .....	
Histology .....	2	Biol. 21 and 63 .....	4
	17		16

**SENIOR YEAR**

Fall Semester	Hours	Spring Semester	Hours
Language .....	3	Language .....	3
Organic Chemistry .....	5	Organic Chemistry .....	5
Bible .....	2	Electives .....	7
Electives .....	5		15
	15		

**1. GENERAL BOTANY**

Four hours first semester

Structure and functions of roots, stems, leaves, and seeds. The practical aspects of botany are stressed along with fundamental biological processes. Three lectures and one two hour laboratory period.

- 2. GENERAL BOTANY** Four hours second semester  
Structure and relationships of the major plant groups. Three lectures and one two hour laboratory period.
- 3. FLORA OF THE REGION** Four hours second semester  
A study of the native wild flowers around Spokane and collecting, mounting, and classifying methods. Much of the laboratory time will be spent in the field. Three lectures and one two-hour laboratory period.
- 4. ELEMENTARY BIOLOGICAL SCIENCE** Four hours first semester  
Designed to acquaint future elementary teachers with an understanding of biology with emphasis on professional needs. Field trips, identification of trees, shrubs, herbaceous species, birds and mammals, together with elementary school visits, and workshop projects, are combined with the study of biological principles in the classroom and the laboratory. Three lectures and one two-hour laboratory period.
- 5. BACTERIOLOGY** Three or four hours second semester  
An introduction to the biology of micro-organisms. Medical and public health aspects are emphasized. Three lectures and three hours of laboratory.
- 7. A. ANATOMY AND PHYSIOLOGY** Four hours first semester  
The study of the general structure and functions of human bodies through mammalian dissection, charts, models, and human skeleton. This course is designed to meet the needs of nursing and home economics students. Three lectures and three hours of laboratory.
- B. ANATOMY AND PHYSIOLOGY** One hour second semester
- 11. GENERAL ZOOLOGY** Four hours first semester  
This is a study of the biology of the invertebrates. Three lectures and one two-hour laboratory period.
- 12. GENERAL ZOOLOGY** Four hours second semester  
A study of the biology of the chordates, biological principles, animals in relation to environment, inheritance, and animal behavior. Three lectures and one two-hour laboratory period.
- 20. HUMAN ANATOMY** Four hours first semester  
A study is made of the structure and general plan of the human body. Demonstrations, charts, models, and the human skeleton are used in the laboratory. An embalmed doubly injected cat is dissected. Three lectures and one two-hour laboratory period.
- 21. HUMAN PHYSIOLOGY** Four hours second semester  
The circulatory, respiratory, digestive, uro-genital, endocrine, and neuro-muscular systems are studied. Three lectures and one three-hour laboratory period. Prerequisite: Biology 7, 12, or 20.
- 38. OUTDOOR WORKSHOP** Two hours summer  
The purpose of the course will be to give practice in organizing studies of outdoor subjects. Examples of topics are: flowers, leaves, stems, roots, fruits, sex, birds, nests, rivers, erosion, clouds, insects, mammals, mountain formation, etc.
- 50. COMPARATIVE VERTEBRATE ANATOMY** Four hours first semester  
This is a detailed study of the anatomy of representative chordates, with most of the laboratory time spent on the anatomy of shark, amphibian, and mammal. Prerequisite: Biology 7, 12, or 20. Two lectures and two three-hour laboratory periods. (Offered in 1957-58 and alternate years.)
- 52. VERTEBRATE EMBRYOLOGY** Four hours first semester  
The development of certain vertebrates from fertilization of the egg to completion of organogenesis is considered. Most of the laboratory work is devoted to the examination of chick and pig embryos. Prerequisite: Biology 1, 12, or 20. Three lectures and one three-hour laboratory period. (Offered in 1958-59 and alternate years.)

**55. EUGENICS**

Two hours second semester

A study of the betterment of the "human race." Genetic and sociological aspects will be discussed and integrated. An introductory course in biology is recommended. Two lectures. (Offered in 1958-59 and alternate years.)

**61. HISTOLOGY**

Two hours first semester

A microscopic study of cells, tissues and systems of vertebrates, especially mammals. Structure, function, and reproduction are coordinated. Prerequisite: Biology 7, 12, or 20. One lecture and three hours of laboratory. (Offered 1958-59 and alternate years.)

**63. GENETICS**

Three hours second semester

A study of the laws and principles governing heredity with application to plants, animals, and man. Three lectures. Prerequisites: Biology 1, 2, 3, 11, 12, or 20.

**98. ADVANCED BIOLOGICAL PROBLEMS**

Hours to be arranged

This course is designed to offer advanced students an opportunity to strengthen their major. Assigned work on special topics may receive credit under this course number; it may include additional reading or advanced laboratory investigation in fields not covered by courses listed in this catalog. Prerequisites: One year of upper division courses in the department.

**99. THESIS**

Hours to be arranged

Reviews of recent literature on present day problems in biology to be integrated with historical relationships by means of conferences and the preparation of a thesis. This course or Biology 98 required of all senior students majoring in biology. One or two hours of credit.

## CHEMISTRY

Dr. Brathovde

Mrs. Gray

**Objectives of the department.**

The objectives of this department are to inculcate a knowledge of the basic laws and theories of chemistry in such a way that the student will be able to use and apply them in his living, to give the student an understanding of the many applications of chemical principles in industry, and to awaken the student to the possibilities of further study in chemistry by giving him a glimpse of its unexplored fields.

The Department of Chemistry offers courses which provide two curricula leading to the degrees of Bachelor of Arts and Bachelor of Science: an elective curriculum provides a basic introduction to chemical science and allows a wide choice of electives in other fields, and a prescribed curriculum which permits an intensive study of chemistry and related sciences in preparation for a professional scientific career or graduate study.

**Major Requirements for Bachelor of Arts.**

Requirements in the elective curriculum are: 24 hours of chemistry; one year of general chemistry, one semester each of quantitative analysis, organic and physical chemistry; one year of physics; mathematics through one semester of the calculus, however it is strongly recommended that the student complete one year of the calculus; plus the general requirements of the college. This program satisfies the major requirement for the General Teaching Certificate in Washington.

**Major Requirements for Bachelor of Science.**

Requirements in the prescribed curriculum are: 45 hours of chemistry; one year each of general chemistry, analysis, organic, physical and theoretical chemistry; one year of physics; mathematics through the calculus; reading knowledge of German or French; one semester of logic; plus the general requirements of the college.

## SUGGESTED SCHEDULE FOR BACHELOR OF ARTS

## FRESHMAN YEAR

First Semester		Second Semester	
	Hours		Hours
General Chemistry .....	3	General Chemistry .....	3
General Chemistry Lab* .....	2	Qualitative Analysis .....	2
Algebra .....	2	Algebra .....	2
Trigonometry .....	3	Analytic Geometry .....	3
English .....	3	English .....	3
Bible .....	2	P.E. ....	1
P.E. ....	1	Psychology .....	3
	<hr/> 16		<hr/> 17

## SOPHOMORE YEAR

First Semester		Second Semester	
	Hours		Hours
Calculus .....	5	Physics .....	5
Physics .....	5	Organic Chemistry .....	3
Quantitative Analysis .....	2	Organic Chemistry Lab. ....	2
Quantitative Analysis Lab. ....	2	Speech .....	2
Bible .....	2	Electives .....	2
P.E. ....	1	P.E. ....	1
	<hr/> 17	Health Education .....	1
			<hr/> 16

## JUNIOR YEAR

First Semester		Second Semester	
	Hours		Hours
Physical Chemistry .....	3	Chemistry Electives .....	2
Bible .....	2	Electives .....	13
Electives .....	10		<hr/> 15
	<hr/> 15		

## SENIOR YEAR

First Semester		Second Semester	
	Hours		Hours
Electives .....	12	Electives .....	14
Bible .....	2		
	<hr/> 14		

## BACHELOR OF SCIENCE IN CHEMISTRY

## FRESHMAN YEAR

First Semester		Second Semester	
	Hours		Hours
General Chemistry .....	3	General Chemistry .....	3
General Chemistry Lab.* .....	2	Qualitative Analysis .....	2
Algebra .....	2	Algebra .....	2
Trigonometry .....	3	Analytic Geometry .....	3
English .....	3	English .....	3
Bible .....	2	Psychology .....	3
P.E. ....	1	P.E. ....	1
	<hr/> 16		<hr/> 17

## SOPHOMORE YEAR

First Semester		Second Semester	
	Hours		Hours
Calculus .....	5	Calculus .....	5
Physics .....	5	Physics .....	5
Quantitative Analysis .....	4	Organic Chemistry .....	3
Bible .....	2	Organic Chemistry Lab. ....	2
P.E. ....	1	P.E. ....	1
	17	Health Education .....	1
			17

## JUNIOR YEAR

First Semester		Second Semester	
	Hours		Hours
German or Electives .....	4	German or Electives .....	4
Physical Chemistry .....	3	Physical Chemistry .....	3
Organic Chemistry .....	3	Physical Chemistry Lab. ....	2
Organic Chemistry Lab. ....	2	Theoretical Organic Chemistry	2
Bible .....	2	Quantitative Analysis .....	3
Speech .....	2		14
	16		

## SENIOR YEAR

First Semester		Second Semester	
	Hours		Hours
Logic .....	3	History .....	3
German or Electives .....	3	Theoretical Chemistry .....	3
French or Electives .....	4	Organic Qualitative Analysis ..	2
Physical Chemistry Lab. ....	2	Electives .....	3
Electives .....	2	Bible .....	2
Seminar .....	1		13
	15		

\*Students may take Lab. on an elective basis.

## 1. GENERAL CHEMISTRY

Three hours first semester

The fundamental principles of chemistry, including a brief survey of organic compounds. The atomic structure of matter is emphasized in relation to chemical valence. This course may be taken as a one semester terminal course or as preparation for Chemistry 2. Three lectures per week.

## 2. GENERAL CHEMISTRY

Three hours second semester

A continuation of Chemistry 1 with emphasis on reactions of metals and non-metals. Theory of qualitative analysis and equilibrium reactions. Prerequisite: Chemistry 1. Three lectures per week.

## 3. GENERAL CHEMISTRY LABORATORY\*

Two hours first semester

Fundamental techniques of using chemical equipment and investigation of physico-chemical problems by analyzing unknowns where possible. Usually taken concurrently with Chemistry 1. Students having completed high school chemistry may be excused from this course upon their request and demonstration of sufficient knowledge of laboratory techniques. Two two-hour laboratory periods per week.

## 4. QUALITATIVE ANALYSIS LABORATORY

Two hours second semester

An elementary laboratory course in analysis of common cations and anions, in addition to selected physico-chemical analyses. Usually taken concurrently with Chemistry 2. Two two-hour laboratory periods per week.

## 8. GENERAL CHEMISTRY

Two hours first semester

A survey of the basic principles of inorganic chemistry for students of nursing, home economics, and other non-majors who desire a shorter course than Chemistry 1. Two lectures per week.



9. **GENERAL CHEMISTRY LABORATORY** One hour first semester  
A familiarization of chemical laboratory techniques by investigation and analysis of unknowns. One two-hour laboratory period per week.
10. **ORGANIC CHEMISTRY** Two hours second semester  
An introduction to Organic Chemistry for students of nursing, home economics and others who want only one semester of organic chemistry. Two lectures per week.
11. **ORGANIC CHEMISTRY LABORATORY** One hour second semester  
A laboratory course correlated with Chemistry 10. One two-hour laboratory period per week.
24. **QUANTITATIVE ANALYSIS** Two hours first semester  
Theory of gravimetric and volumetric analysis. For pre-medical students and others who want only one semester of analysis. Also for majors as preparation for advanced analysis. Two lectures per week.
26. **QUANTITATIVE ANALYSIS LABORATORY** Two hours first semester  
Gravimetric and volumetric analysis of standard compounds. Should be taken concurrently with Chemistry 24. Two three-hour laboratory periods per week.
53. **ORGANIC CHEMISTRY** Three hours second semester  
A study of aliphatic and aromatic compounds. For students who want only one semester of comprehensive study of organic chemistry. Also for those who desire to continue with Chemistry 54. Three lectures per week.
54. **ORGANIC CHEMISTRY** Three hours first semester  
A study of polyfunctional groups. Prerequisite: Chemistry 53. Three lectures per week.
55. **ORGANIC CHEMISTRY LABORATORY** Two hours second semester  
Organic synthesis. Usually taken concurrently with Chemistry 53. Two three-hour laboratory periods per week.
56. **ORGANIC CHEMISTRY LABORATORY** Two hours first semester  
Advanced organic synthesis. Two three-hour laboratory periods per week.
60. **PHYSICAL CHEMISTRY** Three hours first semester  
A study of atomic and molecular spectra and structure, theories of the properties of the solid, liquid and gaseous states and the laws of thermodynamics. Three lectures per week. Prerequisite: Physics.
61. **PHYSICAL CHEMISTRY LABORATORY** Two hours second semester  
A course to familiarize the student with physico-chemical equipment and to initiate independent thinking as applied to physical chemistry experiments. Two three-hour laboratory periods per week.
65. **QUANTITATIVE ANALYSIS** One hour second semester  
Mechanism of some complex analysis and introduction to instrumental analysis. Electronic circuits of common scientific equipment. One lecture per week. (Offered 1958-59 and alternate years.)
66. **QUANTITATIVE ANALYSIS LABORATORY** Two hours second semester  
Gravimetric, volumetric, colorimetric and electro-chemical analysis. Two three-hour laboratory periods per week. (Offered 1958-59 and alternate years.)
70. **PHYSICAL CHEMISTRY** Three hours second semester  
A study of the theory of chemical equilibrium, electrochemistry, chemical kinetics, radioactivity and nuclear energy concepts. Three lectures per week. Prerequisite: Chemistry 60.

**71. ADVANCED PHYSICAL CHEMISTRY LABORATORY****Two hours first semester**

Development of independent thinking on physical chemical research problems under only general supervision. Six hours of laboratory time per week. Prerequisite: Chemistry 61.

**84. ORGANIC QUALITATIVE ANALYSIS****Two hours second semester**

Identification and characterization of simple organic compounds. Prerequisite: Chemistry 56. Two three-hour laboratory periods per week. (Offered 1957-58 and alternate years.)

**88. THEORETICAL ORGANIC CHEMISTRY****Two hours second semester**

Mechanism and electronic interpretation of organic reactions. Two lectures per week. (Offered 1958-59 and alternate years.)

**94. THEORETICAL CHEMISTRY****Three hours second semester**

Energy-level systems and selection rules of nuclear, atomic and molecular aggregates of elementary particles; nature of the chemical bond from both the valence bond and molecular orbital approaches; electronegativity and resonance; and the nature of various force fields and structures of crystals. Three lectures per week. (Offered 1957-58 and alternate years.)

**98. SEMINAR****One-five hours each semester**

Discussion and literature research of current scientific problems, attendance at local scientific meetings. To be arranged.

**99. RESEARCH****To be arranged**

For qualified science students to engage in research problems currently being investigated in the Chemistry Department. Prerequisite: permission of instructor.

## ENGINEERING

Mr. Carlson

Mr. Wilson

Engineering—civil, mechanical, electrical, aeronautical, chemical, etc.—is the application to specific problems of the principles and skills of mathematics, physics, chemistry and other sciences. The Engineering Program at Whitworth is so designed that a student, during his freshman and sophomore years, gives his entire time to basic studies. Then he may (1) enter upon the Whitworth-Lafayette Three-Two Engineering Plan, or (2) complete a science major for graduation, or (3) transfer to a specialized engineering school for professional work.

Whitworth College participates in the Three-Two Engineering Plan sponsored by the Board of Christian Education of the Presbyterian Church, U.S.A. Following three years of basic study at Whitworth College, the student transfers to Lafayette College, Easton, Pennsylvania. Lafayette is one of the old and well known engineering schools in the United States. Upon satisfactory completion of two years of specialized engineering study at one of these schools, and the completion of other graduation requirements, the student is awarded his science degree from Whitworth and his engineering degree from Lafayette. Additional information regarding requirements, courses, and expense may be secured by writing the Whitworth College Admissions Office.

Opportunities in science are very great at present. Between 1940 and 1950, in the United States, scientists working in educational institutions increased from 41,000 to 44,000; those in industrial employment from 40,000 to 83,000 and those in governmental employment from 19,000 to 47,000. Many opportunities are open to the well qualified man or woman.

Admission requirements: In addition to, or included in, the general requirements for admission to Whitworth, engineering students should have had in high school the following: Algebra  $1\frac{1}{2}$  units, Geometry  $1\frac{1}{2}$  units, Chemistry 1 unit and Physics 1 unit. Students with deficiencies should confer with the Engineering Adviser before completing registration.

### FRESHMAN YEAR

First Semester		Second Semester	
	Hours		Hours
Trigonometry .....	3	Analytic Geometry .....	3
College Algebra .....	2	College Algebra .....	2
General Chemistry .....	5	General Chemistry .....	5
Engineering Drawing .....	2	Plane Surveying .....	3
Engineering Problems .....	3	Bible .....	2
Physical Education .....	1	Physical Education .....	1
	<hr/> 16		<hr/> 16

### SOPHOMORE YEAR

First Semester		Second Semester	
	Hours		Hours
General Physics .....	5	General Physics .....	5
Calculus .....	5	Calculus .....	5
Advanced Engr. Drawing .....	2	Bible .....	3
English Composition .....	3	English Composition .....	3
Physical Education .....	1	Physical Education .....	1
	<hr/> 16		<hr/> 17

**JUNIOR YEAR (Three-Two Plan)**

	Hours	Required for
Economics 1 and 2.....	6	All
Speech 1 .....	2	All
Bible .....	2	All
Psychology 21 .....	3	Chemical, Mechanical and Administrative Engrs.
Geology 51 and 52.....	3	Civil, Mining and Metallurgical Engineers
Applied Mechanics .....	3	Civil and Administrative Engineers
Physics 57 and 58.....	5	Electrical Engineers
Physics 77.....	4	Mechanical Engineers
Mathematics 91.....	3	Electrical and Mechanical Engineers
Chemistry 11 and 13.....	7	Chemical, Mining and Metallurgical Engineers
Chemistry 14 .....	4	Chemical Engineers
Chemistry 53 and 54.....	10	Chemical Engineers
Economics 30 and 31.....	6	Mechanical and Administrative Engineers
Economics 35 .....	3	Civil, Electrical, Mechanical, Administrative Engrs.

(Transfer to Lafayette College after Junior year.)

**JUNIOR YEAR (Other Students)**

Mathematics Majors		Physics Majors		Chemistry Majors	
	Hours		Hours		Hours
Mathematics .....	6	Physics .....	10	Chemistry .....	15
Electives .....	24	Mathematics .....	6	Electives .....	15
		Electives .....	20		

**SENIOR YEAR (Other Students)**

Mathematics Majors		Physics Majors		Chemistry Majors	
	Hours		Hours		Hours
Mathematics .....	6	Physics .....	10	Chemistry .....	8
Electives .....	24	Electives .....	20	Electives .....	22

The student should keep in mind that from the elective hours a minor must be completed and all general requirements must be met.

**ENGINEERING COURSES**

- ENGINEERING DRAWING** Two hours, first semester  
Fundamentals of engineering drawing, lettering, orthographic and isometric projection, cabinet and working drawings. Required of all engineering students.
- ADVANCED ENGINEERING DRAWING** Two hours, first semester  
A continuation of Engr. 3, including the application to engineering of descriptive geometry. Includes a study of points, lines, ruled surfaces, and curved surfaces in space. It involves problems in architecture and construction such as finding true lengths, true areas, true cross section lines, or planes of intersection.
- PLANE SURVEYING** Three hours, second semester  
Study of methods in field and office, use and care of instruments, simple surveying problems, etc.
- ENGINEERING PROBLEMS** Three hours, first semester  
Training in methods of analyzing and solving engineering problems. Includes graphical and analytical methods and practice in clear thinking and arrangement of work.
- MAGNETIC AND ELECTRIC CIRCUITS** Two hours, second semester  
Fundamental theory and problem solving.
- APPLIED MECHANICS** Two hours, second semester  
An elementary course in analysis and problem solving. Stresses statics. Involves only essential mathematics.

**GEOLOGY**

Dr. Alder

The following courses in geology are offered for students in Civil, Mining, and Metallurgical Engineering in the Whitworth-Lafayette five-year Engineering Plan.

- INTRODUCTION TO HISTORICAL GEOLOGY** Four hours second semester  
Characteristics of the geological eras and periods will be studied with special emphasis on the Pacific Northwest. Must be preceded by a four hour course in biology or by permission. Three lectures and one three-hour laboratory period a week (On demand.)
- PHYSICAL GEOLOGY** Four hours first semester  
The structural topographic features of the earth and the processes of their formation. Three lectures and one laboratory period. (On demand.)

## HOME ECONOMICS

Miss Boppell

Mrs. Yates

## Objectives of the department.

Training in Home Economics prepares students for various professions, including homemaking. The courses offered are planned primarily for those who desire a general knowledge of Home Economics, and for those who plan to teach Home Economics. They may well serve as a preparation for more specialized training in the various related professions.

## Major and Minor Requirements.

A major in Home Economics consist of thirty semester hours and a minor of sixteen. Required courses for a major are: 1, 14, 15, 16, 31, 32, 35, 51, 60, 63, and Sociology 53; for a minor 14, 15, 31 and 32.

For those majoring in Home Economics one year of a foreign language in college (or two of a foreign language in high school), and Art 7, Chemistry 8 and 10, Physics 5 and Biology 7 are required. Courses in bacteriology and economics are advised. In addition, for those who plan to attend graduate school, intermediate courses in foreign language are advised.

It is well for the student to choose her minor subject as early as possible in her college career. In planning her course, the student should check college graduation requirements, and plan her course so that any deficiencies will be corrected.

## FRESHMAN YEAR

First Semester	Hours	Second Semester	Hours
Introduction to		Tailoring .....	3
Home Economics .....	1	Organic Chemistry (Chem. 10) .....	4
Clothing Selection .....	2	Bible .....	2
General Chemistry .....	4	English Composition .....	3
English Composition .....	3	General Psychology .....	3
Textiles and Clothing .....	4	Physical Education .....	1
Physical Education .....	1		
Health Education .....	1		16
	16		

## SOPHOMORE YEAR

First Semester	Hours	Second Semester	Hours
Food Preparation .....	3	Advanced Food Preparation ....	3
Beginning Design .....	2	Consumer Economics .....	2
Foreign Language .....	4	Foreign Language .....	4
Anatomy and Physiology .....	5	Fundamentals of Speech .....	2
Bible .....	2	Home Nursing .....	2
Physical Education .....	1	Physical Education .....	1
	17	Electives .....	2
			16

## JUNIOR YEAR

First Semester	Hours	Second Semester	Hours
Home Management lecture ....	2	Income Management .....	2
Physics of the Home .....	4	Bacteriology .....	3
Marriage and the Family .....	3	Electives .....	10
Bible .....	2		15
Electives .....	4		
	15		



## SENIOR YEAR

First Semester		Second Semester	
	Hours		Hours
Nutrition .....	3	Child Development .....	3
Weaving .....	2	Home Furnishing .....	3
Philosophy .....	3	Work Experience .....	2-4
Bible .....	2	Home Management House .....	2-3
Electives .....	5	Electives .....	5-2
	15		15

Courses recommended for electives are: Home Economics 8, 37, 54, 67, and 85, Biology 5, and Philosophy 31.

It should be kept in mind that a minor of at least sixteen hours must be completed from the elective hours.

## GENERAL COURSES

1. **INTRODUCTION TO HOME ECONOMICS** One hour first semester  
Introduces students to opportunities in this field. History of Home Economics. Assists in adjustment to college life.
70. **METHODS OF TEACHING HOME ECONOMICS** Two hours second semester  
The problems involved in teaching Home Economics; objectives, organization and presentation of subject matter; teaching materials; equipment. (Offered 1957-58 and alternate years.)
74. **DIRECTED READING IN HOME ECONOMICS** Credit to be arranged  
Intensive reading in some selected field of Home Economics. For upper division majors by permission.
85. **WORK EXPERIENCE** Two to four hours  
Practical experience for seniors under the direction of a professional home economist. Hours and credit to be arranged in conference with the instructor.

## TEXTILES AND CLOTHING

14. **CLOTHING SELECTION** Two hours first semester  
Selection of clothing, considering design principles as applied to clothing; the effect of figure, personality, personal coloring on clothing choices; the clothing inventory, the clothing budget and wardrobe planning.
15. **TEXTILES AND CLOTHING** Four hours first semester  
A study of clothing construction, the use of the commercial pattern, fitting of garments; the textile fibers, standard and new fabrics.
16. **TAILORING** Three hours second semester  
A continuation of Home Economics 15. Construction of garments requiring more advanced methods than in the preceding course; tailoring techniques. Prerequisite: Home Economics 15.
67. **WEAVING** Two hours first semester  
Basic techniques used in weaving, and practical experience in weaving on two-harness looms. (Offered 1958-59 and alternate years.)

## FOODS AND NUTRITION

10. **FOOD PREPARATION FOR NON-MAJORS** Two hours second semester  
A survey course for students who are not Home Economics majors or minors; includes the principles of food selection, preparation and serving. No prerequisite. (Offered 1957-58 and alternate years.)
19. **NUTRITION FOR NURSES** Two hours first semester  
Special emphasis is given in this course to the principles of normal nutrition and the principles and procedures in the care and preparation of foods; planned to aid the student as an individual, as a nurse, and as a teacher of health.

31. **FOOD PREPARATION** Three hours first semester  
A study of the fundamental principles involved in the selection, preparation, and serving of foods. Prerequisite: Chemistry 8.

32. **ADVANCED FOOD PREPARATION** Three hours second semester  
A continuation of Home Economics 31; includes the planning, preparation, and serving of meals; food costs and marketing. Prerequisite: Home Economics 31.

60. **NUTRITION** Three hours first semester  
A study of the components of the normal diet—carbohydrates, fats, proteins, minerals, and vitamins. Emphasis is given to quantitative as well as qualitative aspects; relation of food to health. Prerequisite: Chemistry 10. (Offered 1958-59 and alternate years.)

### HOME ADMINISTRATION

8. **HOME NURSING** Two hours second semester  
To help homemakers and potential homemakers become more skilled and more resourceful in caring for the sick in their homes; includes the care of mothers and babies and helpless and aged members of the family. (Offered 1957-58 and alternate years.)

35. **HOME FURNISHING** Three hours second semester  
A study of the principles involved in the decorating and furnishing of the home. (Offered 1958-59 and alternate years.)

37. **CONSUMER ECONOMICS** Two hours second semester  
See Economics 37 for a description of this course. (Offered 1958-59 and alternate years.)

51. **HOME MANAGEMENT** Two hours first semester  
The organization and management of time and labor, and the selection of equipment for the home. (Offered 1957-58 and alternate years.)

54. **INCOME MANAGEMENT** Two hours second semester  
Planning personal and family spending; problems of choice-making; guides and standards for dividing the income and planning expenditures; consideration of the family's long-time savings and investment program. (Offered 1957-58 and alternate years.)

63. **CHILD DEVELOPMENT** Three hours second semester  
Needs, care and development of the child from infancy through pre-school years; includes a study of nutrition for children. (Offered 1958-59 and alternate years.)

90. **HOME MANAGEMENT HOUSE** Credit to be arranged  
Residence in Home Management House. Experience in managing the house, meal planning and preparation, buying and record-keeping, group relationships. Time and money management emphasized. (Fee.)

## MATHEMATICS

Mr. Carlson

### Objectives of the department.

The program in the Department of Mathematics is designed to meet the needs of the following classes of students:

- (1) The general liberal arts student.
- (2) The student of natural science, engineering, and others planning technical careers.
- (3) The student planning to teach mathematics in a secondary school, and who seeks mathematics as his principal field of preparation.
- (4) The prospective elementary teacher for whom a specialized course in Elementary Mathematics is primarily planned.
- (5) The major in mathematics who anticipates graduate work in this field and whose ultimate goal is college teaching, professional mathematics, or fields of applied mathematics, such as statistics, actuarial science, etc.

## SENIOR YEAR

First Semester	Hours	Second Semester	Hours
Nutrition .....	3	Child Development .....	3
Weaving .....	2	Home Furnishing .....	3
Philosophy .....	3	Work Experience .....	2-4
Bible .....	2	Home Management House .....	2-3
Electives .....	5	Electives .....	5-2
	15		15

Courses recommended for electives are: Home Economics 8, 37, 54, 67, and 85, Biology 5, and Philosophy 31.

It should be kept in mind that a minor of at least sixteen hours must be completed from the elective hours.

## GENERAL COURSES

1. **INTRODUCTION TO HOME ECONOMICS** One hour first semester  
Introduces students to opportunities in this field. History of Home Economics. Assists in adjustment to college life.
70. **METHODS OF TEACHING HOME ECONOMICS** Two hours second semester  
The problems involved in teaching Home Economics; objectives, organization and presentation of subject matter; teaching materials; equipment. (Offered 1957-58 and alternate years.)
74. **DIRECTED READING IN HOME ECONOMICS** Credit to be arranged  
Intensive reading in some selected field of Home Economics. For upper division majors by permission.
85. **WORK EXPERIENCE** Two to four hours  
Practical experience for seniors under the direction of a professional home economist. Hours and credit to be arranged in conference with the instructor.

## TEXTILES AND CLOTHING

14. **CLOTHING SELECTION** Two hours first semester  
Selection of clothing, considering design principles as applied to clothing; the effect of figure, personality, personal coloring on clothing choices; the clothing inventory, the clothing budget and wardrobe planning.
15. **TEXTILES AND CLOTHING** Four hours first semester  
A study of clothing construction, the use of the commercial pattern, fitting of garments; the textile fibers, standard and new fabrics.
16. **TAILORING** Three hours second semester  
A continuation of Home Economics 15. Construction of garments requiring more advanced methods than in the preceding course; tailoring techniques. Prerequisite: Home Economics 15.
67. **WEAVING** Two hours first semester  
Basic techniques used in weaving, and practical experience in weaving on two-harness looms. (Offered 1958-59 and alternate years.)

## FOODS AND NUTRITION

10. **FOOD PREPARATION FOR NON-MAJORS** Two hours second semester  
A survey course for students who are not Home Economics majors or minors; includes the principles of food selection, preparation and serving. No prerequisite. (Offered 1957-58 and alternate years.)
19. **NUTRITION FOR NURSES** Two hours first semester  
Special emphasis is given in this course to the principles of normal nutrition and the principles and procedures in the care and preparation of foods; planned to aid the student as an individual, as a nurse, and as a teacher of health.

- 31. FOOD PREPARATION** Three hours first semester  
A study of the fundamental principles involved in the selection, preparation, and serving of foods. Prerequisite: Chemistry 8.
- 32. ADVANCED FOOD PREPARATION** Three hours second semester  
A continuation of Home Economics 31; includes the planning, preparation, and serving of meals; food costs and marketing. Prerequisite: Home Economics 31.
- 60. NUTRITION** Three hours first semester  
A study of the components of the normal diet—carbohydrates, fats, proteins, minerals, and vitamins. Emphasis is given to quantitative as well as qualitative aspects; relation of food to health. Prerequisite: Chemistry 10. (Offered 1958-59 and alternate years.)
- HOME ADMINISTRATION**
- 8. HOME NURSING** Two hours second semester  
To help homemakers and potential homemakers become more skilled and more resourceful in caring for the sick in their homes; includes the care of mothers and babies and helpless and aged members of the family. (Offered 1957-58 and alternate years.)
- 35. HOME FURNISHING** Three hours second semester  
A study of the principles involved in the decorating and furnishing of the home. (Offered 1958-59 and alternate years.)
- 37. CONSUMER ECONOMICS** Two hours second semester  
See Economics 37 for a description of this course. (Offered 1958-59 and alternate years.)
- 51. HOME MANAGEMENT** Two hours first semester  
The organization and management of time and labor, and the selection of equipment for the home. (Offered 1957-58 and alternate years.)
- 54. INCOME MANAGEMENT** Two hours second semester  
Planning personal and family spending; problems of choice-making; guides and standards for dividing the income and planning expenditures; consideration of the family's long-time savings and investment program. (Offered 1957-58 and alternate years.)
- 63. CHILD DEVELOPMENT** Three hours second semester  
Needs, care and development of the child from infancy through pre-school years; includes a study of nutrition for children. (Offered 1958-59 and alternate years.)
- 90. HOME MANAGEMENT HOUSE** Credit to be arranged  
Residence in Home Management House. Experience in managing the house, meal planning and preparation, buying and record-keeping, group relationships. Time and money management emphasized. (Fee.)

## MATHEMATICS

Mr. Carlson

### Objectives of the department.

The program in the Department of Mathematics is designed to meet the needs of the following classes of students:

- (1) The general liberal arts student.
- (2) The student of natural science, engineering, and others planning technical careers.
- (3) The student planning to teach mathematics in a secondary school, and who seeks mathematics as his principal field of preparation.
- (4) The prospective elementary teacher for whom a specialized course in Elementary Mathematics is primarily planned.
- (5) The major in mathematics who anticipates graduate work in this field and whose ultimate goal is college teaching, professional mathematics, or fields of applied mathematics, such as statistics, actuarial science, etc.



Two classes of majors are recognized in this department:

- (1) The candidate for the Bachelor of Science degree with a major in Mathematics.
- (2) The candidate for the Bachelor of Arts degree with a major in Mathematics.

#### Major Requirements for Bachelor of Science.

A major in Mathematics who seeks the B.S. degree will be required to complete a minimum of 36 hours, including courses 13, 14, 15, 16, 55, 56 and at least 13 additional hours in courses whose catalog numbers exceed 50. The course Physics 82 may be used to count as 3 of the above 13 hours.

#### Major Requirements for Bachelor of Arts.

A major in Mathematics who seeks the B.A. degree will be required to complete a minimum of 28 hours including 13, 14, 15, 16, 55, 56 and at least 4 additional hours in courses whose catalog numbers exceed 50.

Those who select the field of Mathematics in fulfillment of the requirements for the General Teaching Certificate in the State of Washington are advised to take courses 53, 59, and 60 in addition to the specific courses listed under the requirements of majors.

#### Minor Requirements.

A minor in Mathematics consists of a minimum of 20 hours including courses 13, 14, 15, 16, 55 and 56.

Mathematics may be selected to fulfill a part of the Graduation Requirements in Science and Mathematics. (See General Graduation Requirements.) Students in groups (2), (3) and (5) of the above classification are required to present credits for  $1\frac{1}{2}$  units in high school algebra and 1 unit in plane geometry. High school solid geometry and trigonometry are recommended for prospective majors and minors.

It is strongly recommended that majors take two years of foreign language, these to be selected from German or French, or both.

The schedule suggested for the first two years in Mathematics is presented below. Juniors and Seniors should consult the head of the department before preparing their schedules.

#### FRESHMAN YEAR

First Semester		Second Semester	
	Hours		Hours
Trigonometry .....	3	Analytic Geometry and	
College Algebra .....	2	Calculus .....	3
Engineering Drawing .....	2	College Algebra .....	2
English Composition .....	3	Plane Surveying .....	3
Bible .....	2	English Composition .....	3
Social Science .....	3	Public Speaking .....	2
Physical Education .....	1	Electives .....	2
	16	Physical Education .....	1
			16

#### SOPHOMORE YEAR

First Semester		Second Semester	
	Hours		Hours
Calculus and Analytic		Calculus and Analytic	
Geometry .....	5	Geometry .....	5
Physics .....	5	Physics .....	5
Descriptive Geometry .....	2	Bible .....	2
General Psychology .....	3	Electives .....	2
Physical Education .....	1	Physical Education .....	1
	16	Health Education .....	1
			16

**1-2. FUNDAMENTALS OF MATHEMATICS****Two hours each semester**

This course is designed to meet the elementary needs of students in introductory science courses, business administration, secretarial science, statistics, and other fields in which a thorough knowledge of the fundamentals of the mathematical processes is required or desirable. Arithmetical operations, applications of geometry, ratio and proportion, percentage, linear equations, quadratic equations, logarithms, use of the slide rule, and introduction to the trigonometry of the right triangle are included. No credit for one term only.

**3. SOLID GEOMETRY****Three hours second semester**

The study of lines, planes, polyhedrons, cones, cylinders, and the sphere, with applications to science, engineering, and industrial arts. Prerequisite: 1 year high school geometry.

**7. ELEMENTARY MATHEMATICS****Three hours each semester**

Study of the development of our number system, historical development of arithmetical processes, systematic study of college arithmetic, introductory algebraic methods, slide rule, and other computational aides.

**13. PLANE TRIGONOMETRY****Three hours first semester**

This is a systematic study of the trigonometry functions, trigonometric equations and identities and inverse functions. Applications will be made to the fields of plane surveying, navigation, and physics. This course is a prerequisite to Physics 11 and Mathematics 16.

Note: Students should take 13 and 14 simultaneously.

**14-15. COLLEGE ALGEBRA****Two hours each semester**

Study of functions, coordinates, quadratic equations, systems of equations, determinants, cubic equations, logarithms, infinite series, mathematics of investment, probability and complex numbers. No credit for one term only.

Note: Students should take 15 and 16 simultaneously.

**16. ANALYTIC GEOMETRY AND CALCULUS****Three hours second semester**

A unified approach to the study of analytic geometry and the calculus with emphasis upon concepts of variable, constant, function, limits, coordinate systems. Applications of the calculus to algebraic equations and simple integration. Prerequisites: Mathematics 13 and 14.

Note: Students should take Mathematics 15 and 16 simultaneously.

**21. MATHEMATICS OF FINANCE****Three hours second semester**

A mathematical study of compound interest, annuities, sinking funds, valuation of bonds, life insurance, and others. Prerequisite: Mathematics 2 or its equivalent, or special permission.

**52. SOLID ANALYTIC GEOMETRY****Two hours first semester**

Coordinates of space, planes, lines, determinants, matrices, surfaces, curves and transformations.

**53. COLLEGE GEOMETRY****Two hours second semester**

An introductory course including a study of the properties of the triangle and the circle. Recommended to those students who are preparing to teach mathematics.

**55-56. CALCULUS AND ANALYTIC GEOMETRY****Five hours each semester**

A continuation of the subject matter of Mathematics 16 with applications to centroids, moment of inertia, and problems of physics. The course includes a study of the conic sections, transcendental functions, maxima, minima, three dimensional analytic geometry, multiple integrals, and elementary differential equations.

Both courses are essential to an adequate preparation in this field of study. Prerequisite: Mathematics 16.

**59-60. THEORY OF EQUATIONS****Two hours each semester**

A study of the properties of higher equations, graphs and complex numbers. Solution of equations by Newton's and Horner's methods, determinants, systems of linear equations, symmetric functions and discriminants. Prerequisite: Mathematics 56.

**71-72. ADVANCED COLLEGE ALGEBRA****Two hours first and second semesters**

Includes introductions to the theories of matrices, continued fractions, groups, number concepts. Prerequisite: Mathematics 56.

**82. THEORETICAL MECHANICS****Three hours second semester**

A mathematical treatment of the mechanics of particles, solids, and introduction to wave mechanics. Prerequisites: Physics 12, and mathematics 91 or 98. Credit may apply toward either mathematics or physics. Given on demand.

**91. DIFFERENTIAL EQUATIONS****Three hours first semester**

A semester course including ordinary and partial differential equations with applications to geometry and physics. Prerequisite: Mathematics 56. (Offered 1958-59 and alternate years.)

**97-98. ADVANCED CALCULUS****Three hours each semester**

A year course embracing an introductory study of explicit and implicit functions, Beta, Gamma and Bessel functions, vectors, line, surface and space integrals, elliptic integrals, ordinary and partial differential equations, functions of a complex variable. Prerequisite: Mathematics 56. (Offered 1957-58 and alternate years.)

**99. VECTOR ANALYSIS****Three hours each semester**

## WHITWORTH-DEACONESS AFFILIATION IN PROFESSIONAL NURSING

Mrs. Corona

Miss Wimer

Miss Flowers

### PHILOSOPHY OF THE WHITWORTH COLLEGE NURSING PROGRAM

To prepare the student to be proficient in comprehensive nursing is the basic principle of good nursing education. Intrinsic to this is the knowledge, understanding and ability to integrate the social sciences, the biological and physical sciences and nursing skills and techniques to meet the total needs of the patient and his place in the community.

### OBJECTIVES OF THE WHITWORTH COLLEGE NURSING PROGRAM

1. To educate the student of nursing in the fields of biological science so that she will be able to better understand the bodily functions in the light of disease processes.
2. To help the student transfer the physical science of chemistry and nutrition in relationship to disease and total understanding of the patient and his needs.
3. To integrate the student nurses' thinking with consideration for the patient as a person and his place in the community by giving them a broadened background in the social sciences and liberal arts.
4. To provide graduate registered nurses with a well-rounded program in social sciences and liberal arts. Also, to provide them with instruction in ways of integrating this knowledge into their nursing experience.
5. To implement basic nursing with the concept of the public health phase of preventive medicine and health teaching aspects.

This course is designed to accommodate three programs: 1. Those who desire to take a year of college preparatory to entering nursing at the Deaconess Hospital. 2. Those who wish to work for a degree upon completion of the diploma course at the Deaconess Hospital. 3. Those who want to work for a degree by transferring their graduate-nurse credits from other accredited hospital schools of nursing. These will receive forty-five semester hours of credit. Other candidates will be considered if they have taken their State Board examinations in a state which has a national league pool for nurse licenses and have passed with a satisfactory score.

For the student who needs or prefers it, the degree provides opportunity for a stronger educational background and increased possibilities for character development through the Christian emphasis which is on the campus.

From the student point of view the advantages of the Whitworth-Deaconess affiliation in nursing are:

- (1) There is the opportunity to select the program which is best for her individual needs and financial situation.
- (2) Regardless of which program is chosen it is possible for the student to reach the same goals of a diploma in nursing from the Deaconess Hospital School of Nursing which qualifies her to become a candidate for state registration, and a Bachelor of Science degree from Whitworth College in approximately the same length of time if she so desires.

### MISCELLANEOUS REQUIREMENTS FOR A MAJOR IN NURSING

Subject	Hours		
Sociology 11 and 12 .....	6	Chemistry 8-11 .....	6
Nursing 95 .....	3	Sociology 41 .....	3
Nursing 99 .....	3	P.E. 16, (Body Mechanics) ....	1
Psychology 32 or 33 .....	2 or 3	Elective in Liberal Arts .....	9
Psychology 68 .....	2		



### REQUIREMENTS FOR A MINOR WITH A CHOICE FROM THE FOLLOWING THREE FIELDS:

Biology Minor		Psychology Minor		Sociology Minor	
Subject	Hours	Subject	Hours	Subject	Hours
Biology 20-21 .....	8	Psychology 55 .....	3	Sociology 53 .....	2 or 3
Biology 5 .....	4	Approved Electives ..	5	or 33 .....	2 or 3
Approved Electives ..	4	Required Elsewhere ..	8	Sociology 71 or 74 ..	2
	<hr/> 16		<hr/> 16	Approved Electives .....	2 or 3
				Required Elsewhere ..	9
					<hr/> 16

### CURRICULUM OF THE BASIC DEGREE PROGRAM IN NURSING

First Semester—Whitworth College		Second Semester—Whitworth College	
Subject	Hours	Subject	Hours
Biology 20, Human Anatomy..	4	Biology 21, Human Physiology	4
Psychology 21, General .....	3	English 2, English Composition	3
Chemistry 8 and 9, General ....	3	Sociology 12, Social Problems..	3
English 1, English Composition	3	Bible, Elective .....	2
Physical Education, Elective ..	1	Physical Education, Elective ..	1
Speech 1, Fundamentals of Speech .....	2	Chemistry 10 and 11, Organic	3
	<hr/> 16		<hr/> 16

### First Summer—Pre-Nursing Period (at Deaconess Hospital)—6 Weeks

Subject	Hours
Nursing 23, Nursing Arts 1.....	2
Nursing 24, Professional Adjustments 1.....	3
	<hr/> 5

The Pre-Nursing Period is required of all students. Approximately 20 hours per week on clinical experience, medical or surgical, is included.

Third Semester, Whitworth		Fourth Semester, Whitworth and Deaconess	
Subject	Hours	Subject	Hours
Nursing 25, Nursing Arts II ..	2	Nursing 26, Nursing Arts III ..	2
Psychology 41, Social Psychology .....	3	Biology 5, Bacteriology .....	4
Bible, Elective .....	2	Physical Education, Elective ..	3
Home Economics 19, Nutrition for Nurses .....	2	Nursing 40, Pharmacology .....	2
Physical Education, Elective ..	1	Nursing 29, First Aid .....	1½
History, Elective .....	3	Nursing 59, Diet Therapy .....	1½
Minor Elective .....	2		<hr/> 14
	<hr/> 15		

Eight hours experience in clinical area each week.

One week vacation in December.

### Second Summer

Clinical Period Begins—17 Weeks  
(at Deaconess)

Subject	Hours
Nursing 42, Medical & Surgical Nursing.....	12
One hundred and sixty-eight hours of class and seven weeks of clinical experience on both medical and a surgical ward. Field trips, home visits, to Public Health agencies included. Three weeks vacation.	
	<hr/> 12

**Fall Quarter (third year)—12 Weeks\***

Subject	Hours
Nursing 34, Professional Adjustments II .....	1
Nursing 60, Advanced Medical Nursing .....	6
Sixty hours of class and ward conference in the care of the patient who is medically ill and 12 weeks of clinical experience on medical ward.	
Classes include communicable, skin, and venereal diseases.	
	<hr/> 7

**Spring Quarter (third year)—12 Weeks**

Subject	Hours
Nursing 54, Professional Adjustments IV .....	1
Nursing 70, Obstetrical Nursing .....	6
Fifty hours of class and a minimum of twelve hours ward conferences, with four weeks of clinical experience in each of the following: Delivery Rooms, Maternity Wards, and Nursery.	
	<hr/> 7

**Fall Quarter (fourth year)—12 Weeks**

Subject	Hours
Nursing 64, Professional Adjustments V .....	1
Nursing 62, Advanced Surgical Nursing .....	6
Sociology 1, Introduction .....	2
Sixty hours of class and conference in the care of the patient who is surgically ill. Includes 8 weeks of practice in general surgical wards and 4 weeks of practice on orthopedic ward.	
	<hr/> 9

**Spring Quarter (fourth year)  
Affiliation 12 Weeks**

Subject	Hours
Nursing 91, Tuberculosis Nursing .....	3
(6 weeks at V. A. Hospital, Walla Walla.) Approximately 60 hours of class and clinical instruction.	
Nursing 76, Pediatric Nursing Orthopedics .....	2
(6 weeks at Shriners Hospital, Spokane unit.) Eighty hours of classes and clinical instruction.	
	<hr/> 5

**Winter Quarter (third year)  
12 Weeks**

Subject	Hours
Nursing 44, Professional Adjustments III .....	1
Nursing 72, Operating Room, Central Supply, and Emergency Nursing .....	6
Thirty-two hours of clinical instruction in Operating Room Technique, 8 weeks of Operating Room experience, 4 weeks experience in Central Supply.	
	<hr/> 7

**Summer Session (third year)  
16 Weeks**

Subject	Hours
Psych. 33, Child Psychology....	2
Nursing 74, Pediatric Nursing, General .....	5
Seventy-eight hours of class and ward conference in care of children, with 8 weeks of clinical practice.	
Nursing 59, Diet Therapy Practice .....	1½
Clinical instruction and 4 weeks of experience in planning, preparing and serving special diets.	
4 weeks vacation.	
	<hr/> 8½

**Winter Quarter (fourth year)  
Affiliation 12 Weeks**

Subject	Hours
U. of Wn., Psychiatric Nursing .....	5 Qur. hrs.
U. of Wn., Psychiatric Nursing Practice .....	5 Qur. hrs.
Eighty-two hours of class and clinical instruction. (12 weeks at Northern State Hospital, Sedro Woolley.)	
	<hr/> 6⅔ Sem. hrs.

**Summer Session (fourth year)  
12 Weeks**

Subject	Hours
Nursing Administrative Nursing .....	2
Thirty-six hours of class in administrative nursing and 9 weeks of clinical practice .....	4
	<hr/> 6

\*Beginning with this block of experience, the class is divided into four groups. Each of these groups has a different sequence of experience but all groups eventually receive clinical and theoretical instruction in the same areas as the other groups. This allows smaller classes. Theory is taught at the same time as the student receives clinical experience.

**Ninth Semester—Whitworth College  
and Deaconess Hospital**

Subject	Hours
Psychology 68, Theory of Counseling and Guidance .....	2
Nursing 95, Public Health .....	3
Nursing 99, Methods in Clinical Instruction .....	3
Minor Electives .....	8
	<hr/> 16

\* Substitutions may be made at the recommendation of the Director of Nursing Education and the Dean or Registrar.

**WHITWORTH - TRANSFER GRADUATE NURSE PROGRAM**

Graduate nurses shall take the National League of Nurses Graduate Nurse Qualifying Examination to determine their level as a Professional Nurse. Any deficiencies demonstrated in this exam must be made up as part of the requirements for graduation. However, the usual requirements are here stated.

**First and Second Semester as for Pre-Nursing**

Waive Physical Education

Third Semester		Fourth Semester	
Subject	Hours	Subject	Hours
Sociology 41, Social Psychology .....	3	Psychology 32, Developmental Psychology .....	3
Psychology 68, Theory of Counseling and Guidance ..	2	Sociology 62, Urban Sociology .....	2
Nursing 99, Methods in Clinical Instruction .....	3	Nursing 95, Public Health .....	3
Bible, Elective .....	2	Upper Division Electives .....	7
Upper Division Electives .....	7		<hr/> 15
	<hr/> 17	<b>Fifth Semester</b>	
		Subject	Hours
		Electives .....	16

**CURRICULUM OF THE DIPLOMA PROGRAM IN NURSING**

**Pre-Nursing Period—6 Weeks  
(Deaconess)**

Subject	Hours
Nursing 23, Nursing Arts 1 .....	2
Nursing 24, Professional Adjustments 1 .....	3
	<hr/> 5

A six-weeks period in the summer. Required of all students; approximately 20 hours per week on clinical, medical, or surgical experience.

## Pre-Clinical Period

## First Semester—Whitworth College

18 Weeks

Subject	Hours
Nursing 25, Nursing Arts 11 .....	2
Chemistry 8, General Chemistry .....	3
Biology 7, Anatomy and Physiology .....	4
English 1, Composition .....	3
Bible, Elective .....	2
Home Economics 19, Nutrition .....	2
Physical Education .....	1
	<hr/>
	17

Eight hours clinical practice each week.

One week vacation at Christmas.

Pre-Clinical Period  
Second Semester—Whitworth College  
18 Weeks

Subject	Hours
Nursing 26, Nursing Arts 111 .....	2
Biology 5, Bacteriology .....	3
Biology 7, Anatomy and Physiology .....	1
Psychology 21, General Psychology .....	3
Physical Education 16 .....	1
<b>At Deaconess:</b>	
Nursing 40, Pharmacology .....	2
Nursing 29, First Aid .....	2
	<hr/>
	14

Fourteen hours clinical practice each week.

## Clinical Period Begins

## Summer Session (Deaconess)

17 Weeks

Nursing 42, Medical and Surgical Nursing .....	12
One hundred and sixty-eight hours of class and seven weeks of clinical experience on both a medical and surgical ward. Field trips, home visits, and visits to Public Health agencies are included.	
3 weeks vacation.	

12

## Fall Quarter—12 Weeks\*

	Hours
Nursing 34, Professional Adjustments II .....	1
Nursing 60, Advanced Medical Nursing .....	6
	<hr/>
	7

Sixty hours of class and ward conference in the care of the patient who is medically ill and 12 weeks clinical experience on medical ward. Classes include communicable, skin, and venereal diseases.

## Spring Quarter—12 Weeks

	Hours
Nursing 54, Professional Adjustments IV .....	1
Nursing 70, Obstetrical Nursing .....	6
	<hr/>
	7

## Winter Quarter—12 Weeks

Nursing 44, Professional Adjustments III .....	1
Nursing 72, Operating Room, Central Supply, and Emergency Nursing .....	6
	<hr/>
	7

Thirty-two hours of clinical instruction in Operating Room, 8 weeks of operating experience, 4 weeks experience in Central Supply.

## Summer Session—16 Weeks

	Hours
Psychology 33, Child Psychology .....	2
Nursing 74, Pediatric Nursing, General .....	5
Seventy-eight hours of class and ward conferences in care of children, with 8 weeks of clinical practice.	
Nursing 59, Diet Therapy Practice .....	1½
	<hr/>
	8½

Fifty hours of class and minimum of twelve hours ward conference, with four weeks clinical experience in each of the following: Delivery Rooms, Maternity Wards, and Nursery.

#### Fall Quarter—12 Weeks

	Hours
Nursing 64, Professional Adjustments V .....	1
Nursing 62, Advanced Surgical Nursing .....	6
Sociology 1, Introduction .....	2
	9

Sixty hours of class and conference in the care of the patient who is surgically ill. Includes 8 weeks of practice in general surgical wards and 4 weeks of practice on orthopedic ward.

#### Spring Quarter—Affiliation

	12 Weeks	Hours
Nursing 91, Tuberculosis Nursing .....		2
(6 weeks at V. A. Hospital, Walla Walla.)		
Approximately 60 hours of class and clinical instruction.		
Nursing 76, Pediatric Nursing ..		2
(6 weeks at Shriners Hospital, Spokane Unit.)		
Eighty hours of classes and clinical instruction.		4

Clinical instruction and 4 weeks of experience in planning, preparing, and serving special diets.

4 weeks vacation.

#### Winter Quarter—Affiliation 12 Weeks

	Hours
U. of Wn., Psychiatric Nursing .....	5 Qu. hrs.
U. of Wn., Psychiatric Nursing Practice .....	5 Qu. hrs.
	10 Sem. hrs.

Eighty-two hours of class and clinical instruction. (12 weeks at Northern State Hospital, Sedro Woolley.)

#### Summer Session—12 Weeks

	Hours
Nursing 92, Administrative Nursing .....	2
Thirty-six hours of class in administrative nursing and 9 weeks of clinical practice	2
	4

\*Beginning with this block of experience, the class is divided into four groups. Each of these groups has a different sequence of experience but all groups eventually receive clinical and theoretical instruction in the same areas as the other groups. This allows smaller classes. Theory is taught at the same time as the student receives clinical experience.

The diploma in nursing is granted to the student by the Deaconess Hospital School of Nursing upon satisfactory completion of this block of clinical experience.

### DEACONESS GRADUATE NURSE PROGRAM

Seventh Semester		Eighth Semester	
Subject	Hours	Subject	Hours
Speech 1, Fundamentals .....	2	English 2, Composition .....	3
Bible, Elective .....	2	Sociology 12, Social Problems .....	3
Biology, Elective .....	4	Nursing 95, Public Health .....	3
English, Composition .....	1	Liberal Arts Elective .....	3
Sociology 41, Social Psychology .....	3	Minor Elective .....	3
Minor Elective .....	2		15
Elective (substituted for P.E.)	2		
	16		
Ninth Semester			
Subject	Hours		
Psychology 68, Theory of Counseling and Guidance ....	2		
Nursing 99, Methods in Clinical Instruction .....	3		
Chemistry 10 .....	3		
Liberal Arts Elective .....	8		
	16		



**COURSE DESCRIPTIONS**

Required courses in the biological, physical, and social sciences, and the Division of Letters are listed under the respective departments.

**NURSING AND CLINICAL PRACTICE (At the Deaconess Hospital)**

- 23. NURSING ARTS I** **Two semester hours**  
An orientation of the student to nursing skills and techniques. Emphasis is placed on the simple nursing procedures and on establishing desirable nurse-patient relationships. Discussion, demonstration, and practice of procedures in the classroom, are correlated with closely supervised practice in general medical and surgical departments. Twenty hours lecture and re-demonstration each week for three weeks.
- 24. PROFESSIONAL ADJUSTMENTS I** **Three semester hours**  
This course is planned to orient the student to her profession. It emphasizes her ethical responsibility to patients, as well as to professional and non-professional workers with whom she will come in contact. It is also planned to aid her in adjusting to the student group and dormitory life. Lecture and discussion. Twelve hours per week for three weeks.
- 25, 26. NURSING ARTS II AND III** **Two semester hours**  
A continuation of the study of underlying principles, techniques and skills used in nursing, begun in Nursing 23, designed to give an understanding of the fundamental needs of individuals and how these needs may best be met in planning nursing care. Discussion, demonstration, practice in the classroom and supplemented by practice on medical and surgical services of the Deaconess Hospital. One hour lecture, two hours of laboratory each week.
- 29. FIRST AID** **One-half hour second semester**  
(For course description, see Department of Physical Education.)
- 34. PROFESSIONAL ADJUSTMENTS II** **One semester hour**  
Designed to aid students in understanding and appreciating their legal and professional responsibilities as nurses through a knowledge of nurse practice acts and professional organizations. (A study of nurse practice acts, legislation, and of professional organizations.)
- 40. PHARMACOLOGY** **Two semester hours**  
Designed to teach computation of dosage and preparation of solutions as well as to acquaint the student with the use of drugs in the treatment of disease, the precautions relating to their use, and the method of keeping informed about new medications.
- 42. MEDICAL AND SURGICAL NURSING** **Ten semester hours**  
A 14-week course with a minimum of 140 hours of class and ward conferences in Medical and Surgical Nursing (including Medical Science); 7 weeks or 210 hours of experience on a medical ward and 7 weeks or 210 hours of experience on a surgical ward. Designed to instruct the student in the basic principles of the cause, clinical manifestations, nursing care, and prevention of medical and surgical diseases. Student receives experience in the nursing care through the case method assignment. Experience includes administration of medicines, assisting with diagnostic procedures and other more advanced nursing techniques.
- 44. PROFESSIONAL ADJUSTMENTS III** **One semester hour**  
A study of current events and trends in nursing.
- 54. PROFESSIONAL ADJUSTMENTS IV** **One semester hour**  
A review of interesting articles as found in current issues of nursing magazines.
- 59. DIET THERAPY PRACTICE** **One and a half semester hours**  
The student receives 4 weeks experience in the special diet kitchen. She prepares special and calculated diets under the supervision of the hospital dietitian. Group and individual conferences are held.

- 62. ADVANCED SURGICAL NURSING** Six semester hours  
A 12-week course which includes 54 hours of class and conference in urology, gynecology, diseases of the ear, nose, and throat, as well as advanced surgical nursing problems. The student receives eight weeks or a minimum of 120 hours practice on surgical wards and four weeks or a minimum of 120 hours practice on the orthopedic ward. Special conferences in orthopedic nursing are given while the student is in the department. (Classes in orthopedic nursing are given at Shriners' Hospital during the pediatric affiliation.) Designed to provide the student with a basic knowledge of special areas of surgical nursing and experience in solving more advanced nursing care problems.
- 64. PROFESSIONAL ADJUSTMENTS V** One semester hour  
A study of the opportunities open to the professional nurse and the qualifications demanded in the main branches of nursing.
- 74. PEDIATRIC NURSING—GENERAL** Five semester hours  
A course in pediatric medical and surgical nursing which includes 78 hours of instruction and 8 weeks or 224 hours of clinical practice. The course is designed to give an understanding of the growth and development of the normal child, the symptoms, nursing care, and means of prevention of childhood diseases.
- 76. PEDIATRIC NURSING—ORTHOPEDIC** Two semester hours  
The student spends six weeks on affiliation at the Shriners' Hospital for Crippled Children, Spokane Unit. While there, the student receives approximately 70 hours of class and clinical instruction, including a 22 hour course in Orthopedic Nursing.
- 91. TUBERCULOSIS NURSING** Two semester hours  
Students affiliate for six weeks at the Veterans Hospital in Walla Walla, where a safe and well planned experience is available in tuberculosis nursing. Class work as well as clinics and conferences make it a valuable learning experience.
- 92. ADMINISTRATIVE NURSING** Two semester hours  
The student carries 36 hours of class in administrative nursing and nine weeks of clinical practice. This practice includes three weeks experience as charge nurse evenings, three weeks as charge nurse nights, and three weeks as assistant head nurse on days.
- 95. INTRODUCTION TO PUBLIC HEALTH NURSING** Three hours second semester  
A survey of the ways Public Health Nursing is integrated to meet community needs, a cursory study of the place of the Public Health Nurse in preventive medicine and health teaching.
- 99. METHODS IN CLINICAL INSTRUCTION** First and second semesters, 3 hours  
This course is designed for the graduate nurse as a survey course in clinical instruction. Its purpose is to acquaint the student with clinical instruction and its integration into the curriculum of the school of nursing. The first half of the term is spent in background study in teaching methods and their application in schools of nursing. The second half of the term is spent in cadet teaching at the Deaconess Hospital, with campus classes in the form of a seminar.
- 250 (U. of W.). INTRODUCTION TO PSYCHIATRY AND PSYCHIATRIC NURSING** Five quarter hours  
Elementary psychiatric nursing and mental health used in the nursing care of mentally ill patients, including special therapies and rehabilitation programs. This experience to be taken at Northern State Hospital.
- 251 (U. of W.). SELECTED PSYCHIATRIC NURSING PRACTICE** Five quarter hours  
Planned experience in the care of the psychiatric patient with ward teaching. Thirteen weeks, Northern State Hospital.

## PHYSICS

Mr. Wilson

In industry, in the home, and in modern thought generally, physics is having an increasingly important part. It has been called "the basic science"—physical methods and observations are the foundation of engineering, medicine, psychology, etc.—and has been called "the easiest science"—explaining, in part at least, why physics developed earlier and more rapidly than others. Unfortunately there is, all too often even among educated people, a wide gap between modern physics and the general comprehension of it. For this reason physics is recommended for all candidates for the B. A. and B. S. degrees. General physics is the minimum preparation for those intending to do successfully advanced work in engineering, medicine, dentistry, nursing, chemistry or biology.

### Objectives of the department.

The physics courses are planned for three groups of students, those seeking—

1. A general education.
2. To qualify for teaching science in the elementary or secondary schools.
3. To prepare for teaching college or university physics, for industrial physics, and for graduate study.

### Major Requirements for Bachelor of Arts.

A major (28 hours) will require Physics 11, 12, 57, 58, and 96 plus elective hours in physics.

### Major Requirements for Bachelor of Science.

The Bachelor of Science in physics requires the satisfactory completion of a minimum of 28 hours in physics supported by mathematics through the calculus and general chemistry. Differential equations, physical chemistry, and two years of a modern foreign language are recommended.

### Minor Requirements.

A. General education. For general education students, Physics 3, 4, 5, 8 and 9 will be of particular interest. A minor in physics will require fourteen hours.

B. Elementary and secondary teaching. A minor emphasis (16 hours) will require Physics 11, 12, and 96 plus elective hours.

Laboratory breakage in excess of one dollar a semester will be charged to the student at the cost of repair or replacement of the broken items.

The following program is recommended for students majoring in Physics:

### FRESHMAN YEAR

First Semester	Hours	Second Semester	Hours
Trigonometry .....	3	Analytic Geometry & Calculus .....	3
College Algebra .....	2	College Algebra .....	2
General Chemistry .....	5	General Chemistry .....	5
English Composition .....	3	English Composition .....	3
Bible .....	2	Public Speaking .....	2
Physical Education .....	1	Physical Education .....	1
	16		16

### SOPHOMORE YEAR

First Semester	Hours	Second Semester	Hours
Physics 11, General .....	5	Physics 12, General .....	5
Calculus & Analytic Geometry .....	5	Calculus & Analytic Geometry .....	5
General Psychology .....	3	Engr. 7, Electrical Circuits .....	3
Electives .....	2	Bible .....	2
Physical Education .....	1	Physical Education .....	1
	16		16

### JUNIOR YEAR

First Semester	Hours	Second Semester	Hours
Physics 96, Mod. Physics .....	2	Physics 97, Atomic Physics .....	2
Physics 57, Elec. & Mag. ....	3	Physics 67, Optics .....	4
Physics 58, Elec. Meas. ....	2	*Math., Differential Eqs. ....	2
*Math., Differential Eqs. ....	2	**Chemistry, Quant. ....	4
**Chemistry, Quant. ....	4	Electives .....	3
Bible .....	2		15
	15		

		SENIOR YEAR	
First Semester		Hours	Second Semester
Physics 77, Heat .....	4	Physics 55, Radio .....	4
*Math., Adv. Calculus .....	5	*Math., Adv. Calculus .....	5
**Chemistry: Physical .....	4	**Chemistry: Physical .....	4
*Physics 81, Mechanics .....	2	*Physics 82, Mechanics .....	2
	15	Bible .....	2
			17

The following courses will be offered on alternate years and may be taken in any order: 55, 57, 58, 77, 96, and 97.

\*Especially recommended for Physics—Mathematics students.

\*\*Especially recommended for Physics—Chemistry students.

### 3. SURVEY OF PHYSICAL SCIENCE

Five hours first semester

A qualitative study of the basic principles and common phenomena seen in the world around us, including astronomy, geology, chemistry and physics. Requires only arithmetic and elementary algebra. Will satisfy in part the science requirement for graduation. Intended for the general education of students specializing in fields other than science. Not acceptable towards a major in physics. Four lectures and one two-hour lab each week. (Offered 1958-59 and alternate years.)

### 4. ELEMENTARY PHYSICAL SCIENCE

Four hours second semester

A study of the physical phenomena and principles of the world of the elementary and junior high school boy and girl. Intended for elementary teachers, and secondary teachers working in areas other than science. Will satisfy in part the science requirement for graduation. Three lectures and one two-hour laboratory each week.

### 5. PHYSICS OF THE HOME

Four hours first semester

Intended particularly for home economics students. A working knowledge of arithmetic and simple algebra is assumed. Three lectures and one laboratory a week. (Offered 1957-58 and alternate years.)

### 8. ELEMENTARY PHOTOGRAPHY

Two hours first semester and summer term

This course includes the elementary theory of photography and attempts to develop some skill in the exposing and processing of film, prints, and enlargements. Each student must have for his use a camera. Supplies will cost about five dollars. One lecture and one laboratory a week. (Offered 1958-59 and alternate years.)

### 9. MUSICAL ACOUSTICS

Four hours second semester

Designed particularly for students of applied and theoretical music. The nature, production and characteristics of musical sound and the physical basis of music will be studied. Three lectures and one laboratory a week. (Offered 1957-58 and alternate years.)

### 11, 12. GENERAL PHYSICS

Five hours each semester

First semester: mechanics and heat. Second semester: magnetism, electricity, sound and light. A working knowledge of algebra and trigonometry is assumed. Calculus should be taken concurrently. Physics 11 is prerequisite to Physics 12. Three lectures and two laboratories a week.

### 55. FUNDAMENTALS OF RADIO

Four hours second semester

An experimental and theoretical study of elementary radio. Three lectures and one laboratory a week. Prerequisite: Physics 12. (Offered 1958-59 and alternate years.)

### 57. ELECTRICITY AND MAGNETISM

Three hours first semester

A course in electrical theory on the intermediate level. Prerequisites: Physics 12 and Calculus. Whenever possible Physics 57 and 58 should be taken concurrently. (Offered 1957-58 and alternate years.)

- 58. ELECTRICAL MEASUREMENTS** **Two hours first semester**  
An experimental study of the methods and equipment used to measure electrical and magnetic quantities such as field strength, potential, power, resistance, inductance, capacity, etc. Two laboratories a week. Prerequisite: Physics 12 and calculus. (Offered 1957-58 and alternate years.)
- 67. OPTICS** **Four hours second semester**  
The theory and more common techniques of optics. Prerequisite: Physics 12 and calculus. (Offered 1957-58 and alternate years.)
- 68. TECHNICAL PHOTOGRAPHY** **Two hours, second semester and summer term**  
A more advanced study of photographic processes and techniques. Prerequisite: Physics 8 or equivalent. Supplies will cost about seven dollars. (Offered 1958-59 and alternate years.)
- 77. ADVANCED HEAT** **Four hours first semester**  
Heat and elementary thermodynamics. Prerequisites: Physics 11 and calculus. Three lectures and one laboratory. (Offered 1958-59 and alternate years.)
- 82. THEORETICAL MECHANICS**  
Particle mechanics. Prerequisite: Physics 11, calculus and differential equations or advanced calculus. (Offered on demand.)
- 91. HISTORY OF PHYSICAL SCIENCE** **Two hours summer term**
- 93. SPECIAL METHODS IN TEACHING LABORATORY SCIENCE**  
(Offered on demand.) **Three hours summer term**
- 96. MODERN PHYSICS** **Two hours first semester**  
A survey of recent progress in physics. Prerequisite: Physics 12. (Offered 1958-59 and alternate years.)
- 97. ATOMIC PHYSICS** **Two hours second semester**  
A study of atomic structure and behavior. Prerequisite: Physics 12, calculus, and general chemistry. (Offered 1958-59 and alternate years.)
- 98. SEMINAR ON CURRENT RESEARCH** **One to four hours credit**  
A study of recent work in physics. Prerequisite: 15 hours of physics, 10 hours of chemistry, and calculus. (Offered on demand.)
- 99. SPECIAL PROBLEMS** **Credit to be arranged**  
Beginning research investigations.



## *Division of the Social Sciences*

### Purposes of the division.

1. To provide an understanding and appreciation of human relationships and social problems.
2. To provide a broad, liberal background for later professional study.
3. To provide the basis for informed and responsible citizenship.

### SOCIAL SCIENCE MAJOR

A social science major consists of twenty-seven hours of work, including three hours of statistics in all combinations, except that of history and political science, and twelve hours in each of two of the following fields: business administration, economics, education, history, political science, psychology, secretarial science, sociology.

\* *Cannot be used as a broad area in Ed.*

## ECONOMICS AND BUSINESS AND SECRETARIAL SCIENCE

Dr. Bibb

Miss Evans

Mrs. Quall

Mrs. Thomson

### Objectives of the department.

The courses offered in this department are designed to provide:

1. An understanding of the philosophy and principles underlying our economic system.
2. Knowledge of the general field of business and industry, especially as they afford opportunities to college graduates for future careers.
3. A thorough preparation for further specialization through graduate work in economics and business.
4. The preparation of students in those skills needed to hold secretarial and stenographic positions in business houses and other institutions.

Students are trained to enter one of the following fields:

1. Salesmanship.
2. Careers in corporations.
3. Proprietorship of small business.
4. Secretarial and stenographic positions in all phases of business.
5. Teaching economics and commercial subjects in high schools. College teaching after further graduate work.

Basic training is given for such fields as personnel direction, accounting, departmental management, and economic research, which are open to graduates after some specialization in graduate school.

### Major requirements for Business.

A major in Economics and Business consists of 24 semester hours which shall include courses EB 1A, 1B, 30, 31, 35, 51, 56, and one of the following 53, 55, 57.

It is recommended that majors in Economics and Business elect courses in history, sociology, psychology, mathematics, education, and foreign language.

### Minor requirements for Business.

A minor in Economics and Business consists of 16 hours. It must include EB 1a and 2 which are prerequisites for most advanced courses. The remaining courses shall be selected after conference with the head of the department.

### Minor requirements for Economics in Advertising.

A minor in Economics in Advertising consists of 16 hours. The following courses are required: EB 1a, 2, 35.

### Major requirements for Secretarial Science.

A major in Secretarial Science consists of 24 semester hours including Secretarial Science courses 1, 2, or 3, 4; 5-6 or 7,8; 36, 40, 63, and EB 30, 31. If satisfactory preparation has been made in Secretarial Science 1, 2, 5, 6, these courses are waived and the student chooses the second-year courses. When this is done there may be two hours of electives.

**Minor requirements for Secretarial Science.**

A minor in Secretarial Science shall consist of 16 hours. Unless adequate preparation has been made in shorthand and typing, a minor should include Secretarial Science 1, 2, or 3-4; 5-6 or 7,8; Secretarial Science 36 and 40. When there has been satisfactory preparation in shorthand and typing, Secretarial Science 63, EB 30, 31, and elective courses in Economics and Business may be substituted.

It is recommended that Secretarial Science Students elect courses in history, sociology, psychology, literature, etc., to acquaint them with the social and cultural development of the world.

**ECONOMICS AND BUSINESS****FRESHMAN YEAR**

First Semester		Second Semester	
	Hours		Hours
Principles of Economics .....	3	Principles of Economics or	
English Composition .....	3	Introduction to Business .....	3
Laboratory Science .....	4 or 5	English Composition .....	3
Physical Education .....	1	Laboratory Science .....	4 or 5
Bible .....	2	Physical Education .....	1
Electives .....	2	Speech Fundamentals .....	2
		Electives .....	2
	15 or 16		15 or 16

**SOPHOMORE YEAR**

First Semester		Second Semester	
	Hours		Hours
Accounting .....	3	Accounting .....	3
General Psychology .....	3	Business Law .....	3
Physical Education .....	1	Bible .....	2
Electives .....	8	Physical Education .....	1
	15	Health Education .....	1
		Electives .....	5
			15

**JUNIOR YEAR**

First Semester		Second Semester	
	Hours		Hours
Money and Banking .....	3	Elective in Economics .....	3
Bible .....	2	Electives .....	12
Elective in Economics .....	3		
Electives .....	7		15
	15		

**SENIOR YEAR**

First Semester		Second Semester	
	Hours		Hours
Bible .....	2	Elective in Economics .....	3
Electives .....	13	Electives .....	13
	15		16

**SECRETARIAL SCIENCE****FRESHMAN YEAR**

First Semester		Second Semester	
	Hours		Hours
English Composition .....	3	English Composition .....	3
Shorthand .....	4	Shorthand .....	4
Typing .....	2	Typing .....	2
Laboratory Science .....	4 or 5	Laboratory Science .....	4 or 5
Speech Fundamentals .....	2	Bible .....	2
Physical Education .....	1	Physical Education .....	1
		Health Education .....	1
	16 or 17		17

## SOPHOMORE YEAR

First Semester		Second Semester	
	Hours		Hours
Physical Education .....	1	Shorthand .....	3
Shorthand .....	3	Typing .....	2
Typing .....	2	Accounting .....	3
Accounting .....	3	General Psychology .....	3
Bible .....	2	Secretarial Work .....	2
Business English .....	2	Physical Education .....	1
Elective .....	3	Elective .....	3
	16		17

## JUNIOR YEAR

First Semester		Second Semester	
	Hours		Hours
Business Machines .....	2	Bible .....	2
Electives .....	13	Electives .....	13
	15		15

## SENIOR YEAR

First Semester		Second Semester	
	Hours		Hours
Bible .....	2	Electives .....	15
Electives .....	13		16
	15		

## ECONOMICS AND BUSINESS

- 1A, 1B. PRINCIPLES OF ECONOMICS** Three hours first and second semester  
This course lays a foundation for future study in economics and business. The conventional treatment is followed, including: consideration of the several factors of production, and of money, credit, exchange, value, price, and distribution. Considerable emphasis is placed on the application of economic theory to current business problems.
- 2. INTRODUCTION TO BUSINESS** Three hours second semester  
A course introducing the economic principles and their relationship to present-day business life. It deals with the basic tools of business administration, business ownership and organization, the nature of production, marketing, finance, and relationship to government. International trade as it affects American business, personnel relationships, and various problems of business are discussed.
- 21. MATHEMATICS OF FINANCE** Three hours second semester  
For course description see Department of Mathematics.
- 30, 31. ACCOUNTING** Three hours each semester  
A study of the accounting principles and procedures used in the construction of the record of sole proprietorship, partnership, and corporation forms of business units in the analysis of financial statements. Some attention given to accounting as a control device, i. e., valuation cost problems, etc. Should precede business finance.
- 32. COST ACCOUNTING** Three hours first semester  
Prerequisite: EB 30-31. Source of cost data; analysis, classification, and distribution of expenses; and the linking up of data with the general accounting records. (Offered 1957-58 and alternate years.)
- 34. WORLD RESOURCES, ECONOMIC GEOGRAPHY** Three hours first semester  
A functional appraisal of the availability of agricultural and industrial resources. An attempt to develop an understanding of the cultural, technological, economic system. The emphasis is on concepts rather than mere factual knowledge, although relevant data will not be neglected. (Offered 1958-59 and alternate years.)



College Community Church





Going Skiing



- 35. BUSINESS LAW** Three hours second semester  
A consideration of the laws affecting business transactions. Essentials of contracts, offer, acceptance, agency, partnership, corporate law, sales, and negotiable instruments. Theoretical considerations are illustrated by the study of various cases—paying special attention to the bases of decisions. (Offered 1957-58 and alternate years.)
- 36. BUSINESS ENGLISH** Two hours each semester  
Business letters in their various forms. A course to give training in business methods as applied to office correspondence. Given as Economics 36, it is offered also for credit in English. Prerequisite: English 1, and ability to type. Limited enrollment.
- 37. CONSUMER ECONOMICS** Two hours second semester  
This course treats of the theory and practice of the economics of consumption. Buying habits, budgets, consumer prices, cooperatives, government protection of the consumer, Fair Trade laws, and other spheres of government aids. For women. (Offered 1958-59 and alternate years.)
- 48. ESSENTIALS OF MARKETING** Three hours first semester  
For course description, see Department of Advertising.
- 49. ESSENTIALS OF ADVERTISING** Three hours second semester  
For course description, see Department of Advertising.
- 50. STATISTICS** Three hours each semester  
Statistical methods and their application to economic and social problems, emphasis being placed on the use and interpretation of statistical results.
- 51. ECONOMIC HISTORY OF THE UNITED STATES** Three hours second semester  
This course covers the development of American industry from its beginning to the present. Various specific industries are considered in their historical perspective and in their effect on the social economy. (Offered 1958-59 and alternate years.)
- 52. Communication in Industry*
- 53. INVESTMENTS** Three hours second semester  
Analysis of securities; the principles of diversification; securities exchanges; bonds and stocks as investments. (Offered 1957-58 and alternate years.)
- 55. BUSINESS FINANCE** Three hours second semester  
Prerequisites: EB 30-31. A study of the financing problems of modern business in the promotion, operation, reconstruction, and consolidation of enterprises. (Offered 1958-59 and alternate years.)
- 56. MONEY AND BANKING** Three hours first semester  
The topics treated in this course include: The nature, function and regulation of money and credit; the nature, function, and regulation of banks and other financial institutions; the Federal Reserve System; and the agricultural credit agencies in the United States.
- 57. BUSINESS FLUCTUATIONS** Three hours second semester  
Prerequisites: EB 55 and 56. Attention to regional and national conditions. Some analysis of the causes for change, particularly of business cycles. (Offered 1958-59 and alternate years.)
- 58. SALESMANSHIP** Three hours second semester  
For course description, see Department of Advertising. (Offered 1957-58 and alternate years.)

- 59. LABOR ECONOMICS** Three hours first semester  
This course deals with the history and theories of employment and means of relieving unemployment; the nature and theories of wages; the labor union movement, collective bargaining, and places emphasis upon labor-management relations. Some study will be made of recent legislation in this field. (Offered 1958-59 and alternate years.)
- 62. TRANSPORTATION** Three hours second semester  
A study of the development of American transportation systems, railroads, highways, air, and water. The principles of rate making, government regulation, and financing will be covered. (Offered 1957-58 and alternate years.)
- 65. HISTORY OF ECONOMIC DOCTRINES** Four hours first semester  
A study of the development of economic theory from the earliest times to the present. The approach is largely theoretical. Consideration will be given to the validity of the ideas of the various schools of economic thought in the light of the conditions prevailing at the time those theories were developed as well as to the effect of those theories upon our present-day economic thought. (Offered 1958-59 and alternate years.)
- 90. MARKETING RESEARCH** Three hours second semester  
For course description, see Department of Advertising. (Offered 1958-59 and alternate years.)
- 92. RESEARCH** Hours to be arranged, Second Semester  
Individual study. (Offered 1957-58 and alternate years.)

#### SECRETARIAL SCIENCE

- 1, 2. ELEMENTARY TYPEWRITING** Two hours each semester  
Five class periods per week. Fundamentals of typewriting, including technique of stroking, rhythm, accuracy, arrangement of work, acquaintance with the various parts of the typewriter and how to use them.
- 3, 4. ADVANCED TYPEWRITING** Two hours each semester  
Five class periods. Continuation of 1, 2. Further development of speed and accuracy; tabulation, arrangement of letters and business forms.
- 5-6. ELEMENTARY SHORTHAND** Four hours each semester  
Five class periods per week. Recommended Secretarial Science 1 and 2 or its equivalent. Completion of the manual and development of transcription ability. (No credit will be given for less than one year's work except where part of the course has been completed elsewhere.)
- 7, 8. ADVANCED SHORTHAND** Three hours each semester  
Three class periods per week. Continuation of Secretarial Science 6 with special emphasis on the development of speed and transcription skill.
- 30, 31. ACCOUNTING**  
See Description EB 30, 31.
- 36. BUSINESS ENGLISH** Two hours first semester  
For course description see Department of Economics and Business.
- 40. SECRETARIAL WORK** Two hours second semester  
Prerequisite: ability to type. Office dictation, filing, indexing, handling of mail, office appointments, telephone, modern office methods, duties of stenographic and allied departments, secretarial ethics, etc. (Offered 1954-55 and alternate years.)
- 63. BUSINESS MACHINES** Two hours first semester  
Prerequisite: Ability to type. A laboratory course which gives training in the use of various types of office machines, such as adding machine, calculator, phone, mimeograph, etc. (Open only to Secretarial Science, Economics, and Business students.) (Offered 1958-59 and alternate years.)
- 66. OFFICE MANAGEMENT** Two hours second semester  
The organization of an office showing the functions and routines of different departments. The practical application of personnel relations, office budgets, selection of office equipment, etc. (Offered 1957-58 and alternate years.)

## EDUCATION

Dr. La Coste

Dr. Quall

Mr. Johnson

Dr. MacDonald

Dr. Schlauch

Mrs. Tiffany

Dr. Bibb

Dr. Cunningham

The ideal of a good program of teacher preparation is to develop each student's personality, knowledge, and skill to the point of maximum teaching efficiency. This requires a knowledge of multiple broad subject fields, understanding and skill in professional procedures, a personality that reflects love and respect for children, and an understanding of the needs of youth in our modern American culture.

### Objectives of the department.

1. To achieve the high level of cultural and aesthetic living essential for teachers of American youth, and commensurate with graduation from a liberal arts college.
2. To comprehend and understand the subject matter in two or more broad fields commonly taught in elementary and secondary schools.
3. To develop effective skill in education procedures and the professional integrity needful for strict adherence to these procedures in classroom situations.
4. To evaluate personal characteristics and attitudes as they pertain to a successful teaching career.

The State Department of Education of the State of Washington issues the Provisional General Certificate. This entitles the holder to teach on either the elementary or secondary level in a school in the State of Washington. The Provisional General Certificate will be issued at the end of four years of college training. One additional year of college or attendance at summer sessions will be required after actual teaching experience in the public schools before the General Certificate will be issued. The student's program leading to certification is subject to approval by the Department of Education of Whitworth College. The initial four-year program is outlined below.

### Major Requirements.

A major in education consists of <sup>3</sup>~~30~~ hours. The specific courses are listed under "Professional Requirements," **Program for the Provisional General Certificate**. It is assumed that students desiring to teach will major in broad areas of concentration, with the education department assisting in the advisorship function upon request. Majors in education are accepted only if the department in the student's broad area of concentration requires in excess of 30 hours for a major. ~~The education department does not offer a minor.~~

An overall grade point average of 2.25 (C) is necessary for registration in certain required courses, and also at least a 2.00 (C) average in broad areas. During the junior and senior years the Teacher Certification Candidacy Committee provides a special program of guidance to each student desiring certification for public school teaching.

## PROGRAM FOR THE PROVISIONAL GENERAL CERTIFICATE

General Requirements		Professionalized Minor	Broad Areas
Bible .....	8	Optional Courses	Requirement for
Eng. Composition .....	6	(4 required)	Certification:
Health Education .....	1	Education 45, 59, 61,	a minimum of 24 hours
Physical Educ. ....	4	64, 68, 69, 70, 75, 76,	in one broad area and 16
Psychology .....	3	77, 78, 82, and with	in another.
Social Science .....	6	written approval of edu-	1. <b>Health Education</b>
Speech .....	2	cation office, broad area	Physical Educ. and
Science .....	8	departmental listings of	Recreation.
	38	courses in methods of	2. <b>Eng. Language Arts</b>
<b>Professional</b>		teaching.	Speech, Literature, Li-
<b>Requirements</b>		Students preparing for	brary, Journalism,
Devel. Psychology ....	3	elementary teaching are	Drama.
Curricular Materials		advised to select Educa-	3. <b>Foreign Lang. Arts</b>
and Meth. ....	6	tion 69, 75, and 76 from	French, German,
Directed Teaching		among the options.	Spanish, Latin.
and Observation ..	8	<b>Summary</b>	4. <b>Social Studies</b>
State Manual .....	1	General .....	History, Geog., Eco-
Professionalized		Professional .....	nomics, Political Sci-
Minor .....	8	Broad Areas .....	ence.
	26	Miscellaneous .....	5. <b>Science</b>
<b>Miscellaneous</b>		Electives .....	Biological and Physi-
<b>Requirements</b>			cal Sciences.
Art Education .....	2		6. <b>Mathematics</b>
Music 1 or 4 .....	3		7. <b>Fine &amp; Applied Arts</b>
History 85 .....	2		Art, Music (including
			theory & music edu-
			cation), Applied Mu-
			sic, Home Economics,
			<b>Business. See Sec. 5C.</b>

## SUGGESTED SCHEDULE FOR GENERAL CERTIFICATE

FRESHMAN			
Fall Semester	Hours	Spring Semester	Hours
English Composition .....	3	English Composition .....	3
Bible .....	2	Speech .....	2
Physical Education .....	1	Physical Education .....	1
Science .....	4	Science .....	4
Social Science or		Social Science or	
General Psychology .....	3	General Psychology .....	3
Broad Area .....	3	Broad Area .....	3
	16		16
SOPHOMORE			
Fall Semester	Hours	Spring Semester	Hours
Social Science or		Developmental Psych. ....	3
General Psychology .....	3	Physical Education .....	1
Physical Education .....	1	Bible .....	2
Health Education .....	1	Broad Area .....	10
Music 1 or 4 .....	3		16
Broad Area .....	8		
	16		
JUNIOR			
Fall Semester	Hours	Spring Semester	Hours
Art 53 .....	2	Education 72 .....	3
Education 71 .....	3	Bible .....	2
Broad Area .....	6	Broad Area .....	4
Electives .....	5	Electives .....	7
	16		16

SENIOR			
Fall Semester	Hours	Spring Semester	Hours
History 85 .....	2	Directed Teaching	
Bible .....	2	and Observation .....	8
Education 94 .....	1	Professionalized Minor .....	8
Broad Area .....	6		
Electives .....	5		16
	16		

**\*Plan for Preparing Liberal Arts Graduates as Teachers**

Candidates with the following qualifications may apply for admittance to this program:

1. Have a bachelor's degree from an accredited liberal arts college or college of education.
2. Have a minimum of 16 hours in two broad areas commonly taught in public schools.
3. Be not over 48 years of age at the time of entrance to the program.
4. Be interested in a teaching career.
5. Be accepted by Teacher Certification Candidacy Committee.

**Suggested Schedule for General Certificate**

Initial courses to be taken prior to temporary certification:

Education 69 ..... 2

A choice of 3 of the following:

Education 70 ..... 2

Education 75 ..... 2

Education 76 ..... 2

Education 77 ..... 2

Upon completion of the above, candidate is eligible for directed teaching experience on the level he desires to teach.

Education 95 ..... 8

Candidate is eligible for temporary certification, and can accept a position in the public schools upon completion of the 16 hours listed above. Normally, this takes one semester.

Courses to be taken prior to a second year of teaching:

Education 71 ..... 3

Education 72 ..... 3

History 85 ..... 2

Education 94 ..... 1

Candidates with deficient backgrounds in the areas of art or music, and in the areas of human growth and development will be provided with opportunities to make up the deficiency.

Candidate eligible for Provisional General Certificate.

- \* This program will be conducted only so long as there is evidence of a teacher shortage as expressed through Spokane County and City school administrators, patrons, and teachers.

**DEGREE OF BACHELOR OF EDUCATION**

Bachelor of Education degree may be elected by student at completion of 30 hours beyond A.B. degree. The requirements for this degree are as follows:

- 1—Thirty semester hours beyond the A.B. degree.
- 2—Completion of all requirements established by the State Department of Education for certification.
- 3—Additional requirements to be determined by the Department of Education.

**4. FUNDAMENTALS OF MUSIC**

Two hours

This course is designed for laymen and students who have not had previous musical training. The rudiments of music are presented beginning with notation and progressing through scale formation, intervals and simplest harmonic progressions. Rhythm and elementary sight singing are stressed. The various conductor beat patterns will be taught so that the student will be equipped for song leading.



32. **DEVELOPMENTAL PSYCHOLOGY** Three hours each semester  
The growth and development of the child from birth through adolescence, including the learning process. Designed to give an understanding of the child in life situations.
38. **OUTDOOR WORKSHOP** (See Biology 38) Two hours summer
45. **CHILDREN'S LITERATURE** Three hours second semester  
Study of the scope of elementary school literature and of materials and methods relative to meeting growth needs of children through literary adaptation.
50. **STATISTICS** Three hours each semester  
A basic course for students who are majors in the field of psychology or of education. It includes studies and practices in making distributions, computing measures of central tendency, variation and correlation. Emphasis is placed upon the use of statistics.
53. **ART EDUCATION METHODS** Two hours each semester  
This course is designed for non-art-majors and for those who are interested in elementary school art. It will show the prospective teacher methods of progress, materials, and effective presentation.
59. **ELEMENTARY CLASSROOM MUSIC** Three hours  
For description, see Music Department.
61. **TESTS AND MEASUREMENTS** Two hours second semester  
This study gives itself to analysis of individual and group psychological tests and their application to progress of the pupil. Time will be given to problems in making of classroom tests in classroom subjects.
63. **SECONDARY CURRICULAR MATERIALS AND METHODS** Three hours second semester  
A study of the Morrison, Miller, Winnetka, and other methods. A study of technique in subject matter and bibliography will be made in cooperation with the major and minor departments reported by the students enrolled. The students will be required to make a study of methods used in their respective departments in the high schools of Spokane. Observation and reports will be required.
64. **USING AUDIO VISUAL AIDS** Two hours each semester  
The theory and practice of using effectively modern audio-visual aids and materials for teaching. Adult education will be considered.
66. **EDUCATIONAL SOCIOLOGY** Four hours on demand  
The function of education in society, the nature and function of the school, the curriculum, the social objectives of education, democracy and education, vocational guidance, other social agencies besides the school, social control and education.
68. **THEORY OF COUNSELING AND GUIDANCE** Two hours first and second semesters  
(Prerequisites: Psychology 21, 32.) For course description, see Department of Psychology.
69. **ELEMENTARY READING** Two hours first semester  
A course designed to teach the processes of directing children of the lower elementary grades in the effective use of modern reading materials.
70. **GENERAL SCIENCE IN THE ELEMENTARY AND JUNIOR HIGH SCHOOL** Two hours first semester  
Adapting the needs of elementary and junior high school students to the field of general science. A presentation of modern methods and materials of science teaching.

71. **CURRICULAR MATERIALS AND METHODS** Three hours each semester  
One of the courses leading to the general certificate. Included are studies of the nature of learning, class management, unit development, evaluative techniques, and the scope of instructional materials and methods typically used in modern elementary schools. A minimum grade point average of 2.25 at time of registration is required.

72. **CURRICULAR MATERIALS AND METHODS** Three hours each semester  
One of the courses leading to the general certificate. Included are studies of general principles of education and the scope of instructional materials. Particular application is made to secondary schools. A minimum grade point average of 2.25 at time of registration is required.

73. *Middle Grades Spelling - Phonics.*

75. **LANGUAGE ARTS IN THE ELEMENTARY SCHOOL**

Two hours second semester  
Emphasis upon the teaching of the language arts, speech, oral and written expression, creative and dramatic work, handwriting and spelling, to meet the needs of the elementary school child.

76. **ARITHMETIC IN THE ELEMENTARY SCHOOL**

Two hours first semester  
A course designed to teach the subject content and processes of directing children of the elementary grades in the effective use of the arithmetic and number system.

77. **SOCIAL STUDIES IN THE ELEMENTARY SCHOOL**

Two hours first semester  
Study of curricular materials and methods in social studies for the elementary level.

78. **GEOGRAPHY IN THE ELEMENTARY SCHOOL**

Two hours second semester  
Study of materials and methods in geography for the elementary level.

79. **ORGANIZATION OF CLASS MATERIALS IN THE ELEMENTARY GRADES**

Two hours on demand  
A course adapted to the needs of class members; group specialization at various levels.

81. **STUDIES IN ELEMENTARY SCHOOL PROBLEMS**

Two hours summer  
A broad, general study of problems in elementary education. Teachers and students choose problems which are typical in a classroom and work them out in a seminar.

82. **ELEMENTARY SCHOOL PHYSICAL EDUCATION**

Two hours

For description, Department of Physical Education.

- 83-183. **SEMINAR IN ELEMENTARY EDUCATION**

Three hours summer

A study of teaching media and procedures. It includes the nature of learning, class management, individual differences, measurement of achievement and techniques of teaching. Given on demand.

- 90, 91. **RESEARCH SEMINAR**

Two or three hours as arranged

94. **STATE MANUAL**

One hour each semester

A study of the Washington State Manual, supplemented by lectures and discussion on the general field of education in the state of Washington. Required for certification.

95. **DIRECTED TEACHING AND OBSERVATION**

Eight hours

Eight weeks of daily observation and teaching of classes in the public schools of the area. Supervision by the regular teachers to whom the cadet is assigned. A one-hour conference period weekly is required of the class, and individual conferences are required at the appointed times. Open to seniors and graduate students with approved teaching fields. Required for certification. Special fee for the proper remuneration of a master teacher in the public school system and school administrators. See section on financial information. A minimum grade point average of 2.25 at time of registration is required.

### GRADUATE COURSES IN EDUCATION

The following courses are open to graduate students, and applied, if so elected, toward the graduate degree, Master of Education.

In keeping with the developmental approach as the philosophy of education of the Department of Education of the State of Washington, Whitworth College offers the following graduate courses applicable for Elementary and Junior High Principal's Credentials (A-1; B-1) and Junior and Senior High School Principal's Credentials (A-2; B-2). Four hours must be from "A" list and the remaining four hours may be from "A" or "B" or both.

101. (A-1, A-2) **ADVANCED TECHNIQUES OF COUNSELING AND GUIDANCE** Three hours  
A graduate seminar course considering the psychometrics and indirect methods of counseling and readings as basic consideration for directing educational and vocational programs of school children. The student may elect either the elementary or secondary level upon which to do basic research.
102. (B-1, B-2) **ADVANCED PRINCIPLES OF EDUCATION** Three hours  
A course designed to acquaint the student with the broad principles governing American life and their relationship to the schools; teaching for democracy; relationship of education to American society; responsibilities of the teacher and administrator; human problems and the teacher. Adaptation of the schools to these basic problems. For teachers and administrators.
105. (A-1, A-2) **THEORY OF INTERVIEWING** Two hours  
A research course in the techniques, purpose and evaluations of the indirect method of the interviewing phase of counseling. Materials commonly used by counselors in guiding individuals toward academic, vocational and personality adjustment will be used to supplement the verbal phases of interviewing.
113. (A-1, A-2) **STUDIES IN CHILD GROWTH AND DEVELOPMENT** Three hours  
A genetic approach through research projects in achieving an understanding of the child's physical, mental and emotional growth.
114. (A-1) **EVALUATION OF THE ELEMENTARY CURRICULUM** Two hours  
A survey of materials in common usage in elementary public schools. A seminar.
116. (B-1, B-2) **EDUCATIONAL MEASUREMENTS** Two hours  
A study in psychological testing and evaluation of such tests. The course also includes the making of certain diagnostic instruments usable in evaluating pupil growth in personality and subject matter.
121. (A-2) **ORGANIZATION AND ADMINISTRATION OF SECONDARY SCHOOLS** Three hours  
This course is designed especially for the training of administrators in the secondary and junior high school fields. It deals with the general qualifications of the successful administrator; his relationships to the board of education, the faculty and student; the principal and the community; special problems in the organization and administration of high schools; schedule making; and pupil personnel activities. The planning and organizing of supervisory programs; the teaching factor in pupil growth; and self-appraisal of the principal's educational leadership. Curricular evaluation will constitute a portion of this study in keeping with the developmental approach to the psychology of personality of the school child.
122. (A-1) **ORGANIZATION AND ADMINISTRATION OF ELEMENTARY SCHOOLS** Three hours  
A comprehensive treatment of the problems associated with the organization and administration of the elementary schools. Curricular evaluation will constitute a portion of this study in keeping with the developmental approach to the psychology of personality of the school child.
123. (A-1, A-2) **CLASSROOM SUPERVISION** Three hours  
The improvement of instruction through supervision in the first twelve grades.

124. (A-1, A-2) **THE SCHOOL AND COMMUNITY RELATIONS** Three hours  
A course designed to help those who are interested in the total educational program of the community. Emphasis is placed on the development of a school-community program based on local needs.
131. (B-1, B-2) **ADVANCED EDUCATIONAL PSYCHOLOGY** Three hours  
A systematic survey of the field of educational psychology for information and principles of practical value to teachers and administrators in the total public school program. The development of personality through counseling and guidance will be discussed.
132. (A-1, A-2)\* **FOUNDATIONS OF CURRICULUM DEVELOPMENT** Three hours  
Attention is given to the principles underlying curriculum development and the purposes, selection, and organization of instructional materials.
133. (A-1, A-2)\* **SPECIAL PROBLEMS IN THE DEVELOPMENT OF CURRICULAR MATERIALS** Three hours  
This course is conducted on the workshop basis. Students engage in the actual development of curriculum materials in the field of their choice.
136. (A-1, A-2) **STUDENT ACTIVITY PROGRAMS** Three hours  
An analysis of the whole area of activity programs with regard to purposes, types of programs, specific activities, and the function and evaluation of such programs.
137. (B-1) **DIAGNOSIS AND REMEDIAL TEACHING** Three hours  
Principles and methods of studying learning deficiencies (of normal pupils) in the basic school subjects. Methods are considered that have proved valuable in overcoming typical difficulties.
138. (A-1, A-2) **CURRENT EDUCATIONAL THOUGHT** Three hours  
An examination of major issues confronting contemporary education in the United States and of critical thought bearing on those issues.
139. (A-2) **PRINCIPLES OF ADULT EDUCATION** Three hours  
Consideration is given to major social factors leading to the growth and development of adult education. A study is made of types, techniques of teaching, the training of teachers and leaders, and research which furnish the basis for developments in adult education.
150. (A-1, A-2) **COMPARATIVE EDUCATION** Three hours summer  
A study of contemporary education in various countries of the world. Given on demand.
152. (A-1, A-2) **PERSONALITY ADJUSTMENT THROUGH COUNSELING** Three hours summer  
A course designed to acquaint the student with an understanding of human dynamics and the use of the indirect system of counseling as applied to personality problems relative to personality growth. Given on demand.
160. (A-1, A-2) **PUBLIC SCHOOL FINANCE** Three hours  
The methods used in the past and present for financing the schools. Coordination and practices of the state, city, and local boards in providing funds; the annual budget and its control; the principal of prudence in the administration of funds; management of funds; statements and reports; salaries; cost analyses; auditing; and other means of control are studied. The methods, advantages, and administration of school bonds, and the philosophy of state and Federal support are given attention. For all administrators.
161. (B-1, B-2) **TESTS AND MEASUREMENTS** Two hours  
Thus study gives itself to analysis of individual and group psychological tests and their application to progress of the pupil. Time will be given to problems in making of classroom tests in classroom subjects.
164. (A-1, A-2) **INSTRUCTIONAL MATERIALS CENTER** Two hours  
A survey of trends in organization and administration of instructional materials used in the public schools.
165. (A-1) **ELEMENTARY SCHOOL GUIDANCE** Two hours  
A study of the guidance program and the relationship of the teacher as counselor to the needs of elementary school children.



168. (A-1, A-2) **THEORY OF COUNSELING AND GUIDANCE** Two hours  
The purpose of counseling, complexity of student problems, functions of the counselor, analytic and diagnostic techniques, use of academic achievement tests, personality tests and questionnaires, special aptitudes, treatment and vocational problems.
174. (B-1, B-2) **HEALTH EDUCATION WORKSHOP** Two hours  
The anatomical, physiological and bacteriological background for health education in the public schools.
175. (A-2) **TRENDS IN CURRICULUM BUILDING** Three hours summer  
A study of the problems in curriculum development and of promising practices in curriculum work. Given on demand.
176. **EDUCATION AND MODERN TRENDS** Three hours  
Discussion and readings in problems rising out of certain trends in American life and ways to meet them. A broad survey of changes that affect our schools.
180. **SEMINAR IN HISTORY AND PHILOSOPHY OF EDUCATION** Three hours  
A seminar study in great movements in education considered in chronological order and with reference to evaluation of strengths and weaknesses. Individual and group projects.
181. (A-1) **STUDIES IN ELEMENTARY SCHOOL PROBLEMS** Two hours  
A broad, general study of problems in elementary education. Teachers and students choose problems which are typical in a classroom and work them out in a seminar.
182. (B-1) **ELEMENTARY SCHOOL PHYSICAL EDUCATION** Two hours  
Study of materials and methods. Teaching specifically in physical education on the elementary level.
185. **DEVELOPMENT OF AMERICAN EDUCATION** Three hours summer  
A course designed to compare epochs in philosophy and history of educational practices in America. Given on demand.
186. (A-1, A-2, B-1, B-2)\* **READINGS IN EDUCATION** Three hours  
A graduate reading course in educational materials and basic studies in major areas of educational curricula.
- 190-191. (A-1,2, B-1,2) **RESEARCH SEMINAR** Two-four hours each semester  
A supervised study into major problems in education. The student follows research methods similar to his individualized investigation. Subjects pertinent to either the elementary, junior high, or senior high school may be elected.
- 200, 201. **THESIS** Three hours each semester  
Methodology of Research and Thesis writing.

\*Level of emphasis must be stated.

\* \* \*

### GRADUATE WORK IN CHRISTIAN EDUCATION

The Master of Education Degree will be awarded to graduate students in the field of Christian Education who have completed areas of study and research as listed below. A close affinity is noted between the Master of Education Degree as applied to the public school field and the Master of Education Degree as applied to Christian Education in the church. Requests for changes in the program leading to the Master of Education Degree must be made to the Graduate Council.

Methodology of Research  
Advanced Educational Psychology  
Curricular Problems  
Advanced Techniques of Counseling  
History and Philosophy of Christian Education  
Supervision of Christian Education  
Practicum (on Administrative level) and Seminar  
Thesis  
Electives (Approved by Department Head)



## HISTORY

Dr. Cunningham

Dr. Duvall

### Objectives of the department.

This department is concerned with the task of presenting factual matter in a clear and comprehensive manner and teaching the student how to relate the facts of past history to the problems of the present and the future, likewise to show the close connection between history and political science in the study of political institutions. A further objective is to prepare the student for continued research.

### Major and Minor Requirements.

A major in history consists of a minimum of 25 semester hours in history; a minor, at least 15 hours. Required courses are 31, 32, and either 1, 2 or 69, 70.

A foreign language is required of all majors in history. It is strongly recommended that students majoring in history take basic courses in political science and the other social sciences.

Courses in literature and philosophy also complement the study of history.

### 1, 2. HISTORY OF CIVILIZATION

Three hours each semester

A survey of world history from pre-literary times to the present. Emphasis is placed upon the continuity of history and the relation which the past bears to contemporary civilization.

### 31. AMERICAN HISTORY TO 1865

Three hours first semester

A general course dealing with the development of the United States, including the European background, the colonial era, the struggle for independence, the development of national life and institutions, and the growth of sectionalism culminating in the Civil War.

### 32. AMERICAN HISTORY SINCE 1865

Three hours second semester

A continuation of History 31, emphasizing the development of the West, big business, overseas interests, and world leadership.

### 51. ECONOMIC HISTORY OF THE UNITED STATES

Three hours second semester

For course description, see Department of Economics and Business. (Offered 1957-58 and alternate years.)

### 53, 54. THE ANCIENT WORLD

Two hours each semester

The first semester includes a study of the pre-literary beginnings of patterns of human organization, the development of civilized life in the Ancient Near East; and the life and thought of the Greeks. The second semester deals with the development of the republic in Rome, and the rise and decline of the Roman Empire. Emphasis is laid on the contributions of the ancient world to the modern world. (Offered 1958-59 and alternate years.)

### 55, 56. HISTORY OF ENGLAND

Two hours each semester

Emphasis is placed on the development of social, economic, and political institutions from earliest Britain to the Commonwealth of Nations. Special work will be assigned those who are interested in constitutional developments. (Offered 1958-59 and alternate years.)

### 57, 58. RECENT AMERICAN HISTORY

Two hours each semester

A study of American History from 1920 to the present. Particular attention will be paid to the political, cultural, economic, and social development. (Offered 1957-58 and alternate years.)

### 59, 60. MEDIEVAL EUROPE

Two hours each semester

A study of Europe between the fall of Rome and the year 1500. This is often a neglected area of study. However it furnishes valuable understandings for the study of modern times as well as the development and place of the universal church. (Offered 1957-58 and alternate years.)

**69, 70. MODERN EUROPE****Three hours each semester**

This is basically a survey of European History since 1500. The first semester considers the history of Europe from 1500 until the Congress Vienna. The second semester continues the study of the history of Europe to the present. Emphasis is placed on the development of the modern world from the heritage of Medieval Europe.

**71, 72. THE RENAISSANCE****Three hours each semester**

An integrated study of the fundamental social, economic and political changes which attended the coming of the Renaissance; the outstanding literary, artistic, philosophic, musical and scientific developments and brilliant personalities which characterized this period; presented by instructors from these various fields of learning. (Offered 1957-58 and alternate years.)

**75, 76. THE AMERICAN COLONIES****Two hours each semester**

A study of the transplanting of European culture to American soil; the development of these colonies through the War for Independence. (Offered 1956-57 and alternate years.)

**77, 78. THE WESTWARD MOVEMENT****Two hours each semester**

A comprehensive study of the westward movement of the American people from colonial beginnings to modern times; the significance of the frontier in American History; the importance of the West as a section of the American nation. (Offered 1957-58 and alternate years.)

**85. WASHINGTON STATE HISTORY AND GOVERNMENT****Two hours second semester**

Historical development of the territory and State of Washington; study of the beginning and present government. A required course for education majors planning to teach in Washington.

**91, 92. INDIVIDUAL CONFERENCE AND RESEARCH****One to three hours each semester**

Students are allowed to follow their own particular interests in history under guidance and will be held for detailed reports of their research. Review will be made of the various techniques and methods in research and the proper utilization of each. Credit given depends upon the amount of investigation done by the student.

Open only to seniors and graduates. The consent of the instructor is required for admission to this course.

## POLITICAL SCIENCE

**Dr. Cunningham****Mr. Gray****Objectives of the department.**

The courses in political science are designed to acquaint one with the origin and nature of governmental organizations. It seeks to promote perspective and balanced judgment in analyzing and interpreting world affairs.

**Major and Minor Requirements.**

A major in political science consists of a minimum of 25 semester hours in political science; a minor, at least 15 hours. A foreign language is required of all who major in political science.

**1. AMERICAN NATIONAL GOVERNMENT****Three hours first semester**

A study of the historical development and principles of the federal system of government in America; the territorial and functional distribution of government powers; civil rights; and political parties.

**2. AMERICAN STATE GOVERNMENT****Three hours second semester**

A study of state constitutions; the government and politics of states; and inter-governmental relations.

**21. CURRENT NATIONAL AND INTERNATIONAL PROBLEMS****Two hours each semester**

A study of current events and issues on the national and world scene, with emphasis on the background and interpretation of these events and issues.

42. **AMERICAN POLITICAL PARTIES** Two hours second semester  
A study of political parties as an instrument in the development of the American democratic system. Emphasis will be placed upon the history of political parties and their place in the political history of the American Republic. (Offered 1958-59 and alternate years.)
51. **INTERNATIONAL RELATIONS** Three hours each semester  
A study of the factors, rules and customs which affect the relations of the national states; attempts to establish international organizations. (Offered 1958-59 and alternate years.)
57. **STATE AND FEDERAL COURTS** Three hours second semester  
The course will include a study of the following: history of the courts and legal rights, trials and trial procedures, civil and criminal law principles, and structure of state and federal court systems. (Offered 1958-59 and alternate years.)
- 61, 62. **AMERICAN DIPLOMACY** Two hours each semester  
The origin and development of agencies and policies of diplomacy in America. (Offered 1958-59 and alternate years.)
63. **COMPARATIVE GOVERNMENT** Three hours second semester  
A comparative study of the government and politics of the leading nations of Europe. (Offered 1958-59 and alternate years.)
65. **AMERICAN CONSTITUTION** Three hours first semester  
A study of the growth and development of the Constitution of the United States as reflected in the decisions of the Supreme Court. Special stress upon principles of the federal system; civil and political rights; executive power, powers of Congress, the Judiciary; the regulation of commerce; and taxation. (Offered 1958-59 and alternate years.)
81. **HISTORY OF POLITICAL THOUGHT** Three hours second semester  
The thought of the political philosophers and the development of basic concepts of the state from the time of Plato to the present. (Offered 1957-58 and alternate years.)
- 91, 92. **INDIVIDUAL CONFERENCE AND RESEARCH** One to three hours each semester  
Students are allowed to follow their own particular interests in this field under guidance and will be held for detailed reports of their research. Credit given depends upon the amount of investigation. Open only to seniors and those majoring in Political Science.

## PSYCHOLOGY

Dr. MacDonald

Dr. Beach

### Objectives of the department.

- A. to contribute to the student's intellectual understandings through (1) a knowledge of the facts, problems, and research findings concerning the basic behavioral processes (2) an acquaintance with the basic methodological concepts of psychology, including quantitative, experimental and clinical techniques. (3) a view of the concepts and issues of psychology from different theoretical positions and in historical perspective.
- B. to contribute to the student's personal growth and his ability to meet personal and social adjustment problems adequately.

A major in psychology can be a first step toward any of a number of professional opportunities. Among them are college teaching, research, personnel work in industry and government, psychometrics, vocational and personal guidance in schools and colleges, clinical work with either children or adults in guidance clinics, juvenile and criminal courts, and mental hospitals. Nearly all of these positions require graduate work leading to the M.A. or Ph.D. degree. In addition, the major or a minor in psychology will equip the student with understandings and techniques beneficial in related vocations of teaching, the ministry, social work, business and nursing.

**Major Requirements.**

A major in psychology consists of at least 30 semester hours of credit, including the following required courses: general psychology, developmental psychology, statistics, psychological theory and history, experimental psychology, abnormal psychology and measurement in psychology.

**Minor Requirements.**

A minor consists of at least 16 hours.

Students majoring in psychology are encouraged to elect courses in the biological sciences, including anatomy, physiology and genetics for the required laboratory science. Courses in mathematics are highly recommended, as is at least one course in philosophy. It is recommended that general psychology be taken in the freshman year.

- 21. GENERAL PSYCHOLOGY** Three hours first and second semesters  
A survey of the field of psychology, including an introduction to the basic psychological concepts of maturation, motivation, perception, learning, emotion, emotional conflict, thinking, intelligence, and personality. (This course is a prerequisite to all other courses in psychology.)
- 32. DEVELOPMENTAL PSYCHOLOGY** Three hours first and second semesters  
A study of the physical, social and emotional growth and development from birth through adulthood. The course is designed to give an understanding of the individual in life situations such as the classroom. Prerequisite: Psychology 21.)
- 33. CHILD PSYCHOLOGY** Two hours first and second semesters  
A course designed for nurses only, and offered at the hospital. The development of the individual from infancy through adolescence. Social, biological, and psychological implications are studied, using the developmental approach. Prerequisite: Psychology 21.
- 41. SOCIAL PSYCHOLOGY** Three hours first semester  
A study of the relationship between social organizations and the personality attributes of members of society. The social nature of ethnic, racial, class, and sex differences. The development of a socialized personality. Prerequisite: Psychology 21.
- 50. STATISTICS** Three hours first and second semesters  
Statistical methods and their application to social problems, with emphasis on the use and interpretation of statistical data. Prerequisite: Psychology 21.
- 51. PSYCHOLOGICAL THEORY AND HISTORY** Three hours second semester  
A study of the nature and problems of theory construction in psychology. Contemporary issues in psychology are viewed with historical perspective and from different theoretical positions. (Offered 1958-59 and alternate years.) Prerequisite: Psychology 21 (A course in philosophy is highly recommended.)
- 52. EXPERIMENTAL PSYCHOLOGY AND LABORATORY** Three hours first semester  
A laboratory course in the fundamentals of general psychology. Two continuous periods twice weekly. Training in the scientific methods and tools of modern experimental psychology, with emphasis on student design and execution of experiments, interpretation of data, and the writing of reports. (Offered 1958-59 and alternate years.) Prerequisites: Psychology 21, 50.
- 53. PSYCHOLOGY OF ADJUSTMENT** Three hours first semester  
Origins of behavior, modification of behavior, motivation and adjustment, varieties of adaptive behavior, organic factors of personality, development of personality traits, guidance of readjustment, and the application of mental hygiene. Prerequisites: Psychology 21, 32.
- 59. ABNORMAL PSYCHOLOGY** Three hours second semester  
A study of the nature of behavior pathology with emphasis on developmental factors, behavior syndromes, and problems of diagnosis and treatment. Prerequisites: Psychology 21, 55 or permission of the instructor.



**62. MEASUREMENT IN PSYCHOLOGY****Three hours first semester**

Theory of psychological measurement. A survey of individual and group tests employed in the measurement of general abilities, aptitudes, interests and personality characteristics, together with problems of administration, scoring and the interpretation of test results. (Offered 1957-58 and alternate years.) Prerequisites: Psychology 21, 50 and permission of the instructor.

**63. BUSINESS AND INDUSTRIAL PSYCHOLOGY****Three hours second semester**

The methods of psychology applied to the problems of business and industry. Employee appraisal through development and use of evaluative instruments, employee selection, training, morale, fitness, productivity. The psychological principles involved in selling, advertising and personnel problems. Prerequisites: Psychology 21, (Econ. or Psych.) 50.

**68. THEORY OF COUNSELING AND GUIDANCE****Two hours first and second semesters**

An introductory course in the purpose and theory of the counseling process, functions of the counselor, introduction to interview technique, individual appraisal and records in the counseling process. Prerequisites: Psychology 21, 32 and 55 or 59 or permission of the instructor.

**77. PSYCHOLOGY OF RELIGION****Two hours second semester**

A systematic investigation of religion and the application of psychological phenomena to religious experiences. Includes root and nature of religion, conversion, prayer, etc. (Offered 1958-59 and alternate years.)

**88. READINGS IN PSYCHOLOGY****Two or three hours**

A course designed for advanced students in psychology desiring directed reading in chosen fields with seminar discussions. For majors only.

**90, 91. RESEARCH SEMINAR****Two or three hours**

Work to be done in consultation with the Head of the Department of Psychology. Open only to seniors and graduate students.

## SOCIOLOGY

Dr. Schlauch

Mr. Wesley

Dr. LaCoste

**Objectives of the department.**

1. An understanding and appreciation of human relationships and social problems.
2. A broad liberal background for later professional study in law, medicine, the ministry, and social work.

Students in sociology may prepare themselves for any one of the following fields of work:

Social research

Social service work (See "Pre-Social Work" next page)

Playground work

Director of youth groups such as boy scouts and camp fire girls

Teacher of sociology

Probation or parole officer of a court or penal institution

Criminologist or staff assistant in a penal institution

Y. M. C. A. or Y. W. C. A. work

It is understood that for many of the positions listed above graduate work must be done in sociology or social work, or in other specified fields.



Through an arrangement with the Spokane Y.M.C.A. and the Y.W.C.A. the Sociology Department offers a series of courses in leadership training in social group work, including actual practice in the leadership of boys' or girls' groups at various age levels. The Y.M.C.A. and the Y.W.C.A. pay the expenses of these leaders to and from the places where they have charge of their youth groups.

#### Major and Minor Requirements.

A major in sociology consists of twenty-five hours of work, and a minor of sixteen hours. Required courses for a major are 11, 12, 41, 50, and 53. Required courses for a minor are 11, 12, 41, and 53.

It is recommended that sociology majors take principles of economics, United States history, American government, logic, biology, and considerable psychology.

Foreign language is required of sociology majors.

Students preparing to teach in the public schools of the State of Washington under the General Certificate, and choosing Sociology as the field of concentration in the "Broad Area of Social Studies," must complete a total of twenty-four semester hours of Sociology, including courses 11, 12, 41, and 53.

### PRE-SOCIAL WORK

The following program has been developed in consultation with a committee of practitioners representing the Inland Empire Chapter of the American Association of Social Workers, and is endorsed by this chapter. It is recommended that students planning to enter the field of social work major in one of the two fields of psychology and sociology, and minor in the other. In every case the student should plan his entire program in such a way as to meet the prerequisites of the graduate school of social work which he plans to enter. The courses listed below will meet the specific entrance requirements of schools of social work:

Soc. 11, Introduction to Sociology	Psych. 21, General Psychology
Soc. 12, Social Problems	Psych. 32, Developmental Psychology
Soc. 31, Cultural Anthropology	Psych. 55, Psychology of Adjustment
Soc. 50, Statistics	Psych. 59, Psychology of Abnormal People
Soc. 71, Principles of Social Work	Psych. 68, Theory of Counseling and Guidance
Soc. 72, Field Observation	

#### Additional Courses Recommended for Social Work Students:

Soc. 53, The Family	Home Ec. 54, Income Management
Soc. 41, Social Psychology	History 31 and 32, American History
Econ. 1A and 1B, Principles of Economics	Pol. Sci. 1 and 2, American Government
Biol. 20, Human Anatomy	Biol. 21, Human Physiology

1. **INTRODUCTION TO SOCIOLOGY** Two hours each semester  
An introduction to the field of sociology, with special emphasis on the problems of the family and the community.
11. **INTRODUCTION TO SOCIOLOGY** Three hours first semester  
A study of the major concepts of sociology. This course provides a background for further study in the field of sociology. It is the course required of students majoring in the field. (Credit cannot be given for both Sociology 1 and Sociology 11.)
12. **SOCIAL PROBLEMS** Three hours second semester  
A study of our chief social problems; their causes, their results, and some suggested solutions.
31. **CULTURAL ANTHROPOLOGY** Two hours first semester  
A study of comparative cultures, both primitive and modern. (Offered 1957-58 and alternate years.)

- 33. YOUTH AND MARRIAGE** Two hours first semester  
A study of the factors in preparation for marriage and family life. Factors in marriage adjustment and parent-child interaction.
- 37. CRIMINOLOGY** Three hours first semester  
A study of crime: nature and extent, causes, control; rehabilitation of the criminal. (Offered 1957-58 and alternate years.)
- 41. SOCIAL PSYCHOLOGY** Three hours first semester  
A study of the relationship between social organizations and the personality attributes of members of society. The social nature of ethnic, racial, class, and sex differences. The development of a socialized personality.
- 42. RACE RELATIONS** Three hours second semester  
A study of races and cultures, race attitudes and conflicts, race problems and race relations; special reference to problems in the United States.
- 43, 44. LEADERSHIP TRAINING FOR SOCIAL GROUP WORK** Two hours each semester  
Principles and practices of social group work; studies of group work agencies in the community; purpose and program of the Y.M.C.A. and the Y.W.C.A.; problems related to religious experiences and to home experiences; leadership techniques in recreation; organization of recreation for parties. (These courses, along with 59 and 60, are given in cooperation with the Y.M.C.A. and the Y.W.C.A. of Spokane. Prerequisites for these courses are general psychology, developmental psychology or child psychology, and introduction to sociology. It is strongly recommended that students planning to take these courses take also social psychology, physical education techniques and first aid)
- 50. STATISTICS** Three hours each semester  
Statistical methods and their application to social problems, with emphasis on the use and interpretation of statistical data.
- 53. THE FAMILY** Three hours first semester  
A study of the family in various cultures; family problems, approaches to their solution.
- 59, 60. SUPERVISED GROUP WORK** Two hours each semester  
Students taking these courses will spend approximately six to eight hours a week organizing and directing groups in connection with the Y.M.C.A. or the Y.W.C.A. In addition, there will be conferences of these leaders on the seminar basis at stated intervals.
- 61. RURAL SOCIOLOGY** Two hours first semester  
A study of the structure and institutions of the rural community; the social and economic problems of rural areas; community organizational approach to rural community functioning. (Offered 1958-59 and alternate years.)
- 62. URBAN SOCIOLOGY** Two hours second semester  
A study of the growth of cities, and the problems of city life. (Offered 1958-59 and alternate years.)
- 64. PUBLIC OPINION** Two hours second semester  
A study of the various factors in the formation of public opinion; the press, the radio, the public platform; censorship, propaganda, education; the techniques in democracies and dictatorships. (Offered 1958-59 and alternate years.)
- 65. CONTEMPORARY SOCIAL MOVEMENTS** Two hours second semester  
A study of the nature and origin of such social movements as socialism, communism, fascism, and social democracy. (Offered in 1957-58 and alternate years.)
- 71. PRINCIPLES OF SOCIAL WORK** Two hours first semester  
A study of the basic principles and practices in modern case work and community organization. Study of the present social work agencies, both public and private, and the roles and functions of social workers and administrators. (Offered 1958-59 and alternate years.)

**72. FIELD OBSERVATION****Two hours second semester**

Supervised field work with social agencies. (Prerequisite, course 71. Offered 1958-59 and alternate years.)

**74. COMMUNITY ORGANIZATION****Two hours second semester**

A study of the organizations of communities for various social purposes. Includes both private and public organizations. (Offered 1957-58 and alternate years.)

**91, 92. INDIVIDUAL CONFERENCE AND RESEARCH****Two to four hours each semester**

Students are allowed to follow their own particular interests in this field under guidance, and will be held for detailed reports on their research. Credit given depends upon the amount of work done, and the results of the investigation.

**ENROLLMENT BY SEMESTERS****1955-1956****SUMMARY**

Semesters	Men	Women	Total
Summer .....	166	157	323
Fall .....	405	432	837
Spring .....	422	438	860

**INDIVIDUAL STUDENT ENROLLMENT BY CLASSES****(no duplications in personnel)**

Class	Total
Freshmen .....	398
Sophomores .....	217
Juniors .....	149
Seniors .....	163
Graduate and Post Graduate Students .....	127
Special Students .....	185
Total Individual Students .....	1239
Veterans .....	129

## WHITWORTH ALUMNI ASSOCIATION EXECUTIVE OFFICERS

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Vice-President—Lewis Messex.....	1211 W. 14th, Spokane
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Dorsey Bailey.....	Seattle, Washington
R. Bruce McCullough.....	Glendora, California
Mary Lois Taylor.....	Lind, Washington

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The Whitworth College Auxiliary was organized September 15, 1930 and has grown to be a large and important organization of the College.

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## GRADUATES 1955

## BACHELOR OF ARTS DEGREE

- Clarence Everett Abey, Jr., Spokane  
 Wanda Sue Baker, Yakima  
 Helen Shaw Baumgartner, cum laude,  
 Spokane  
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 Spokane  
 Ralph Milton Bohannon, Spokane  
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 Santa Maria, California  
 Derald Denny Bozarth, Spokane  
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 Mary Caroline Brown, Coulee City  
 Wayne Earl Buchert, Oroville  
 Geraldine Esther Buob, cum laude,  
 Edwall  
 Anna Mae Carpenter, cum laude,  
 Granger  
 Georgia M. Casper, Spokane  
 Ann Alyse Christensen, cum laude,  
 Davenport  
 Kaye Hugh Colvin, Denver, Colorado  
 Janet Rae Cook, Sunnyside  
 Jacob Douglas Coss, Spokane  
 Gordon Timothy Cramer,  
 Richboro, Pennsylvania  
 David Edward Crossley, Seattle  
 Marian Lou Davis, cum laude, Fairfield  
 John Robert Dean, Otis Orchards  
 Leonard Walter DePew,  
 Monrovia, California  
 Donald Laverne Dixon,  
 Deer Lodge, Montana  
 Orril A. Fluharty, Spokane  
 Alvin J. Franklin, cum laude, Spokane  
 Charles H. Frye, Portland, Oregon  
 Patricia Jean Frye, Portland, Oregon  
 David John Gallaher, Calgary,  
 Alberta, Canada  
 Geneva Madaline Gammill, cum laude,  
 Tacoma  
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 Clifford Goss, Dallas, Texas  
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 Nancy Kathleen Myers, magna cum  
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**MASTER OF EDUCATION DEGREE**

Loran Eric Anderson, B.A.,

Otis Orchards

Don R. McInturff, B.A., B.Ed., Spokane

George W. Palmer, B.S., Spokane

Lillian Dell Whitehouse, B.A., Spokane

**DOCTOR OF DIVINITY DEGREE**

The Reverend William Koper, Field Director, Synod of Oklahoma, Board of Christian Education, Presbyterian Church in the United States of America, Oklahoma City, Oklahoma.

The Reverend William Wilson Rasco, Minister First Presbyterian Church, Walla Walla.

## GRADUATES 1956

## BACHELOR OF ARTS DEGREE

- Michael David Anderson, magna cum laude, Otis Orchards  
 Sandra Vivian Babcock, Spokane  
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 Joanne Ruth Bickerstaff, Yakima  
 George Thomas Blood, Spokane  
 Robert David Bradner, Seattle  
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 Bruce Allen Burns, Salem, Oregon  
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 Hugh Calvin Collins, Spokane  
 Harlan Page Confer III, Laguna Beach, California  
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 Betty Ann Cramer, Spokane  
 Marilyn Anne Grandell, Spokane  
 Ray Creech, Coulee Dam  
 Frederick Henry Cronkhite, Rathdrum, Idaho  
 Joanna Culver, Wapato  
 Kenneth Walter Degerness, Medford, Oregon  
 Richard D. Denham, cum laude, Clarkston  
 Johannes Friedemann Elsner, Wolfshagen, Germany  
 Daryl Wayne Felts, Spokane  
 Donna Mae Flynn, cum laude, Kalispell, Montana  
 Rodney David Freeborg, cum laude, Spokane  
 William John Freeman, Spokane  
 Frances Geneva Gardner, Spokane  
 Waldo Robert Gedosch, cum laude, Yakima  
 Joyce Aileen Giedt, cum laude, Medical Lake  
 Dorothy L. Handel Goss, cum laude, Spokane  
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 Janet Nadine Hall, cum laude, Spangle  
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 Eugenia Hae-Soon Kim, Seoul, Korea  
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 VeNita Ellen Peterson, cum laude, Kent  
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 Ronald Dean Schoesler, Ritzville  
 Lois Mabel Schopp, Cashmere  
 Joan Alison Shaffer, Spokane  
 James Franklin Shepherd, cum laude, Seattle  
 Takichi Shigematsu, Nakatsu, Oita, Japan  
 Joyce Louise Shriner, magna cum laude, Yakima  
 Betty Barkema Sieler, Spokane  
 Richard Owen Sieler, Spokane  
 Ronald Joseph Singley, Chester, Pennsylvania  
 Wayne Merwin Smith, Spokane  
 Faith Snider, Spokane  
 William George Snodgrass, Seattle  
 Walter Joseph Spangenberg, Green Ridge, Pennsylvania  
 James J. Staggs, Spokane  
 Robert Wesley Steffer, Spokane  
 William Alonzo Stewart, Spokane  
 Larry Merlin Strickland, Woodland  
 Robert Sterling Strong, Spokane  
 Darrell Leonard Syferd, Yakima

Jack M. Thiessen, Spokane  
 Dwight Crater Treganowan,  
 Fort Lauderdale, Florida  
 Ray LaVerne Van Engen, Roca,  
 Nebraska  
 Saisuree Vatcharakiet, cum laude,  
 Bangkok, Thailand  
 Alan George Villesvik, magna cum  
 laude, Yakima  
 Dorothy Bovee Villevik, Kent  
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 Arvo Melvyn Wahto, Douglas, Alaska  
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 East Africa

### BACHELOR OF SCIENCE DEGREE

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 Blackwell, Oklahoma  
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 Post Falls, Idaho  
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### MASTER OF EDUCATION DEGREE

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 Daniel Churchill Davis, Jr., B.A., B.M.,  
 Spokane  
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 Orlando Thurman Fletcher, B.A.,  
 Spokane  
 Howard Vincent Jones, B.A., Spokane  
 Edwin Valentine Kretz, B.A., Spokane

### DOCTOR OF DIVINITY DEGREE

The Reverend Alexander M. Campbell, Director of Evangelism, Synod of  
 Washington, Seattle.  
 Chaplain (Lt. Col.) Maurice Robert Holt, Bolling Air Force Base, Washing-  
 ton, D. C.  
 The Reverend Forrest C. Travaille, Missionary in Thailand (2-24-56)

### DOCTOR OF LAWS DEGREE

C. Clement French, President of State College of Washington, Pullman (2-  
 24-56).

The Honorable Harold Edward Stassen, Special Assistant to President Eisen-  
 hower, Washington, D. C.

Frank Furniss Warren, President of Whitworth College, Spokane (2-24-56).

### DOCTOR OF LITERATURE

Clifford H. Drury, Professor of Church History at San Francisco Theological  
 Seminary, San Anselmo, Calif. (9-26-55).

Joan Ruth Wallace, cum laude,  
 Thousand Palms, California  
 Herman Franklin Wendler, Spokane  
 Gloria Gwendolyn Werner, Mohler  
 Frances Loraine West, cum laude,  
 Reubens, Idaho  
 Margaret Lucile Wilson, cum laude,  
 Wapato  
 Donna Louise Witter, Medford, Oregon  
 Ward Raymond Woods, Arcadia,  
 California  
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 Glenn Wilson McKinlay, Spokane  
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 California  
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 Coolidge, Arizona  
 John Preston Scottford, B.A., Omak  
 Norman Lee Swensson, cum laude,  
 Englewood, Colorado  
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 David Lutz Turner, cum laude,  
 East Stroudsburg, Pennsylvania  
 Janet Turner Twibel, Pardeeville,  
 Wisconsin  
 Norma Jean Yates, cum laude, Spokane

Eldon Dean Sharp, B.A., Spokane  
 Saisuree Vatcharakiet, B.A.,  
 Bangkok, Thailand

Herschel Dille Lindsey, B.A., B.Ed.,  
 Spokane  
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 Spokane  
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 Idaho  
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 Carlton, Minnesota

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